<110> INCYTE GENOMICS, INC.
YUE, Henry
TANG, Y. Tom
HILLMAN, Jennifer L.
LAL, Preeti
BANDMAN, Olga
BAUGHN, Mariah R.
AZIMZAI, Yalda
YANG, Junming
REDDY, Roopa
LU, Dyung Aina M.

<120> INTRACELLULAR SIGNALING MOLECULES

<130> PF-0733 PCT

<140> To Be Assigned
<141> Herewith

<150> 60/149,640; 60/164,417
<151> 1999-08-17; 1999-11-09

<160> 104

<170> PERL Program

<210> 1
<211> 446
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 129042CD1

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Arg	Arg	Ala	Leu	Phe	Asp	Ser	Tyr	Thr	Asn	Leu	Glu	Arg	Val	Ala	
				20				25						30	
Asp	Tyr	Cys	Glu	Asn	Asn	Tyr	Ile	Gln	Ser	Ala	Asp	Lys	Gln	Arg	
				35				40						45	
Ala	Leu	Glu	Glu	Thr	Lys	Ala	Tyr	Thr	Thr	Gln	Ser	Leu	Ala	Ser	
				50				55						60	
Val	Ala	Tyr	Leu	Ile	Asn	Thr	Leu	Ala	Asn	Asn	Val	Leu	Gln	Met	
				65				70						75	
Leu	Asp	Ile	Gln	Ala	Ser	Gln	Leu	Arg	Arg	Met	Glu	Ser	Ser	Ile	
				80				85						90	
Asn	His	Ile	Ser	Gln	Thr	Val	Asp	Ile	His	Lys	Glu	Lys	Val	Ala	
				95				100						105	
Arg	Arg	Glu	Ile	Gly	Ile	Leu	Thr	Thr	Asn	Lys	Asn	Thr	Ser	Arg	
				110				115						120	
Thr	His	Lys	Ile	Ile	Ala	Pro	Ala	Asn	Leu	Glu	Arg	Pro	Val	Arg	
				125				130						135	
Tyr	Ile	Arg	Lys	Pro	Ile	Asp	Tyr	Thr	Ile	Leu	Asp	Asp	Ile	Gly	
				140				145						150	
His	Gly	Val	Lys	Val	Ser	Thr	Gln	Asn	Met	Lys	Met	Gly	Gly	Leu	
				155				160						165	
Pro	Arg	Thr	Thr	Pro	Pro	Thr	Gln	Lys	Pro	Pro	Ser	Pro	Pro	Met	
				170				175						180	
Ser	Gly	Lys	Gly	Thr	Leu	Gly	Arg	His	Ser	Pro	Tyr	Arg	Thr	Leu	
				185				190						195	
Glu	Pro	Val	Arg	Pro	Pro	Val	Val	Pro	Asn	Asp	Tyr	Val	Pro	Ser	
				200				205						210	

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Pro Thr Arg Asn Met Ala Pro Ser Gln Gln Ser Pro Val Arg Thr
                215                 220                 225
Ala Ser Val Asn Gln Arg Asn Arg Thr Tyr Ser Ser Ser Gly Ser
                230                 235                 240
Ser Gly Gly Ser His Pro Ser Ser Arg Ser Ser Ser Arg Glu Asn
                245                 250                 255
Ser Gly Ser Gly Ser Val Gly Val Pro Ile Ala Val Pro Thr Pro
                260                 265                 270
Ser Pro Pro Ser Val Phe Pro Gly His Pro Val Gln Phe Tyr Ser
                275                 280                 285
Met Asn Arg Pro Ala Ser Arg His Thr Pro Pro Thr Ile Gly Gly
                290                 295                 300
Ser Leu Pro Tyr Arg Arg Pro Pro Ser Ile Thr Ser Gln Thr Ser
                305                 310                 315
Leu Gln Asn Gln Met Asn Gly Gly Pro Phe Tyr Ser Gln Asn Pro
                320                 325                 330
Val Ser Asp Thr Pro Pro Pro Pro Pro Pro Val Glu Glu Pro Val
                335                 340                 345
Phe Asp Glu Ser Pro Pro Pro Pro Pro Pro Pro Glu Asp Tyr Glu
                350                 355                 360
Glu Glu Glu Ala Ala Val Val Glu Tyr Ser Asp Pro Tyr Ala Glu
                365                 370                 375
Glu Asp Pro Pro Trp Ala Pro Arg Ser Tyr Leu Glu Lys Val Val
                380                 385                 390
Ala Ile Tyr Asp Tyr Thr Lys Asp Lys Glu Asp Glu Leu Ser Phe
                395                 400                 405
Gln Glu Gly Ala Ile Ile Tyr Val Ile Lys Lys Asn Asp Asp Gly
                410                 415                 420
Trp Tyr Glu Gly Val Met Asn Gly Val Thr Gly Leu Phe Pro Gly
                425                 430                 435
Asn Tyr Val Glu Ser Ile Met His Tyr Ser Glu
                440                 445
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<211> 340
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<213> Homo sapiens

<220>
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Met Ala Lys Trp Leu Arg Asp Tyr Leu Ser Phe Gly Gly Arg Arg
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Pro Pro Pro Gln Pro Pro Thr Pro Asp Tyr Thr Glu Ser Asp Ile
                 20                  25                  30
Leu Arg Ala Tyr Arg Ala Gln Lys Asn Leu Asp Phe Glu Asp Pro
                 35                  40                  45
Tyr Glu Asp Ala Glu Ser Arg Leu Glu Pro Asp Pro Ala Gly Pro
                 50                  55                  60
Gly Asp Ser Lys Asn Pro Gly Asp Ala Lys Tyr Gly Ser Pro Lys
                 65                  70                  75
His Arg Leu Ile Lys Val Glu Ala Ala Asp Met Ala Arg Ala Lys
                 80                  85                  90
Ala Leu Leu Gly Gly Pro Gly Glu Glu Leu Glu Ala Asp Thr Glu
                 95                 100                 105
Tyr Leu Asp Pro Phe Asp Ala Gln Pro His Pro Ala Pro Pro Asp
                110                 115                 120
Asp Gly Tyr Met Glu Pro Tyr Asp Ala Gln Trp Val Met Ser Glu
                125                 130                 135
Leu Pro Gly Arg Gly Val Gln Leu Tyr Asp Thr Pro Tyr Glu Glu
                140                 145                 150
Gln Asp Pro Glu Thr Ala Asp Gly Pro Pro Ser Gly Gln Lys Pro
                155                 160                 165
Arg Gln Ser Arg Met Pro Gln Glu Asp Glu Arg Pro Ala Asp Glu
                170                 175                 180
Tyr Asp Gln Pro Trp Glu Trp Lys Lys Asp His Ile Ser Arg Ala
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                185                 190                 195
Phe Ala Val Gln Phe Asp Ser Pro Glu Trp Glu Arg Thr Pro Gly
                200                 205                 210
Ser Ala Lys Glu Leu Arg Arg Pro Pro Pro Arg Ser Pro Gln Pro
                215                 220                 225
Ala Glu Arg Val Asp Pro Ala Leu Pro Leu Glu Lys Gln Pro Trp
                230                 235                 240
Phe His Gly Pro Leu Asn Arg Ala Asp Ala Glu Ser Leu Leu Ser
                245                 250                 255
Leu Cys Lys Glu Gly Ser Tyr Leu Val Arg Leu Ser Glu Thr Ser
                260                 265                 270
Pro Gln Asp Cys Ser Leu Ser Leu Arg Ser Ser Gln Gly Phe Leu
                275                 280                 285
His Leu Lys Phe Ala Arg Thr Arg Glu Asn Gln Val Val Leu Gly
                290                 295                 300
Gln His Ser Gly Pro Phe Pro Ser Val Pro Glu Leu Val Leu His
                305                 310                 315
Tyr Ser Ser Arg Pro Leu Pro Val Gln Gly Ala Glu His Leu Ala
                320                 325                 330
Leu Leu Tyr Pro Val Val Thr Gln Thr Pro
                335                 340
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<211> 353
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 1418671CD1

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Met Glu Asp Gly Val Leu Lys Glu Gly Phe Leu Val Lys Arg Gly
  1                 5                  10                  15
His Ile Val His Asn Trp Lys Ala Arg Trp Phe Ile Leu Arg Gln
                 20                  25                  30
Asn Thr Leu Val Tyr Tyr Lys Leu Glu Gly Gly Arg Arg Val Thr
                 35                  40                  45
Pro Pro Lys Gly Arg Ile Leu Leu Asp Gly Cys Thr Ile Thr Cys
                 50                  55                  60
Pro Cys Leu Glu Tyr Glu Asn Arg Pro Leu Leu Ile Lys Leu Lys
                 65                  70                  75
Thr Gln Thr Ser Thr Glu Tyr Phe Leu Glu Ala Cys Ser Arg Glu
                 80                  85                  90
Glu Arg Asp Ala Trp Ala Phe Glu Ile Thr Gly Ala Ile His Ala
                 95                 100                 105
Gly Gln Pro Gly Lys Val Gln Gln Leu His Ser Leu Arg Asn Ser
                110                 115                 120
Phe Lys Leu Pro Pro His Ile Ser Leu His Arg Ile Val Asp Lys
                125                 130                 135
Met His Asp Ser Asn Thr Gly Ile Arg Ser Ser Pro Asn Met Glu
                140                 145                 150
Gln Gly Ser Thr Tyr Lys Lys Thr Phe Leu Gly Ser Ser Leu Val
                155                 160                 165
Asp Trp Leu Ile Ser Asn Ser Phe Thr Ala Ser Arg Leu Glu Ala
                170                 175                 180
Val Thr Leu Ala Ser Met Leu Met Glu Glu Asn Phe Leu Arg Pro
                185                 190                 195
Val Gly Val Arg Ser Met Gly Ala Ile Arg Ser Gly Asp Leu Ala
                200                 205                 210
Glu Gln Phe Leu Asp Asp Ser Thr Ala Leu Tyr Thr Phe Ala Glu
                215                 220                 225
Ser Tyr Lys Lys Lys Ile Ser Pro Lys Glu Glu Ile Ser Leu Ser
                230                 235                 240
Thr Val Glu Leu Ser Gly Thr Val Val Lys Gln Gly Tyr Leu Ala
                245                 250                 255
Lys Gln Gly His Lys Arg Lys Asn Trp Lys Val Arg Arg Phe Val
                260                 265                 270
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Leu Arg Lys Asp Pro Ala Phe Leu His Tyr Tyr Asp Pro Ser Lys
                275                 280                 285
Glu Glu Asn Arg Pro Val Gly Gly Phe Ser Leu Arg Gly Ser Leu
                290                 295                 300
Val Ser Ala Leu Glu Asp Asn Gly Val Pro Thr Gly Val Lys Gly
                305                 310                 315
Asn Val Gln Gly Asn Leu Phe Lys Val Ile Thr Lys Asp Asp Thr
                320                 325                 330
His Tyr Tyr Ile Gln Ala Ser Ser Lys Ala Glu Arg Ala Glu Trp
                335                 340                 345
Ile Glu Ala Ile Lys Lys Leu Thr
                350
<210> 4
<211> 593
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1456841CD1

<400> 4
Met Ser Arg Pro Ser Ser Arg Ala Ile Tyr Leu His Arg Lys Glu
  1                   5                  10                  15
Tyr Ser Gln Asn Leu Thr Ser Glu Pro Thr Leu Leu Gln His Arg
                 20                  25                  30
Val Glu His Leu Met Thr Cys Lys Gln Gly Ser Gln Arg Val Gln
                 35                  40                  45
Gly Pro Glu Asp Ala Leu Gln Lys Leu Phe Glu Met Asp Ala Gln
                 50                  55                  60
Gly Arg Val Trp Ser Gln Asp Leu Ile Leu Gln Val Arg Asp Gly
                 65                  70                  75
Trp Leu Gln Leu Leu Asp Ile Glu Thr Lys Glu Glu Leu Asp Ser
                 80                  85                  90
Tyr Arg Leu Asp Ser Ile Gln Ala Met Asn Val Ala Leu Asn Thr
                 95                 100                 105
Cys Ser Tyr Asn Ser Ile Leu Ser Ile Thr Val Gln Glu Pro Gly
                110                 115                 120
Leu Pro Gly Thr Ser Thr Leu Leu Phe Gln Cys Gln Glu Val Gly
                125                 130                 135
Ala Glu Arg Leu Lys Thr Ser Leu Gln Lys Ala Leu Glu Glu Glu
                140                 145                 150
Leu Glu Gln Arg Pro Arg Leu Gly Gly Leu Gln Pro Ser Gln Asp
                155                 160                 165
Arg Trp Arg Gly Pro Ala Met Glu Arg Pro Leu Pro Met Glu Gln
                170                 175                 180
Ala Arg Tyr Leu Glu Pro Gly Ile Pro Pro Glu Gln Pro His Gln
                185                 190                 195
Arg Thr Leu Glu His Ser Leu Pro Pro Ser Pro Arg Pro Leu Pro
                200                 205                 210
Arg His Thr Ser Ala Arg Glu Pro Ser Ala Phe Thr Leu Pro Pro
                215                 220                 225
Pro Arg Arg Ser Ser Ser Pro Glu Asp Pro Glu Arg Asp Glu Glu
                230                 235                 240
Val Leu Asn His Val Leu Arg Asp Ile Glu Leu Phe Met Gly Lys
                245                 250                 255
Leu Glu Lys Ala Gln Ala Lys Thr Ser Arg Lys Lys Lys Phe Gly
                260                 265                 270
Lys Lys Asn Lys Asp Gln Gly Gly Leu Thr Gln Ala Gln Tyr Ile
                275                 280                 285
Asp Cys Phe Gln Lys Ile Lys Tyr Ser Phe Asn Leu Leu Gly Arg
                290                 295                 300
Leu Ala Thr Trp Leu Lys Glu Thr Ser Ala Pro Glu Leu Val His
                305                 310                 315
Ile Leu Phe Lys Ser Leu Asn Phe Ile Leu Ala Arg Cys Pro Glu
                320                 325                 330
Ala Gly Leu Ala Ala Gln Val Ile Ser Pro Leu Leu Thr Pro Lys
```

335 340 345
Ala Ile Asn Leu Leu Gln Ser Cys Leu Ser Pro Pro Glu Ser Asn
350 355 360
Leu Trp Met Gly Leu Gly Pro Ala Trp Thr Thr Ser Arg Ala Asp
365 370 375
Trp Thr Gly Asp Glu Pro Leu Pro Tyr Gln Pro Thr Phe Ser Asp
380 385 390
Asp Trp Gln Leu Pro Glu Pro Ser Ser Gln Ala Pro Leu Gly Tyr
395 400 405
Gln Asp Pro Val Ser Leu Arg Arg Gly Ser His Arg Leu Gly Ser
410 415 420
Thr Ser His Phe Pro Gln Glu Lys Thr His Asn His Asp Pro Gln
425 430 435
Pro Gly Asp Pro Asn Ser Arg Pro Ser Ser Pro Lys Pro Ala Gln
440 445 450
Pro Ala Leu Lys Met Gln Val Leu Tyr Glu Phe Glu Ala Arg Asn
455 460 465
Pro Arg Glu Leu Thr Val Val Gln Gly Glu Lys Leu Glu Val Leu
470 475 480
Asp His Ser Lys Arg Trp Trp Leu Val Lys Asn Glu Ala Gly Arg
485 490 495
Ser Gly Tyr Ile Pro Ser Asn Ile Leu Glu Pro Leu Gln Pro Gly
500 505 510
Thr Pro Gly Thr Gln Gly Gln Ser Pro Ser Arg Val Pro Met Leu
515 520 525
Arg Leu Ser Ser Arg Pro Glu Glu Val Thr Asp Trp Leu Gln Ala
530 535 540
Glu Asn Phe Ser Thr Ala Thr Val Arg Thr Leu Gly Ser Leu Thr
545 550 555
Gly Ser Gln Leu Leu Arg Ile Arg Pro Gly Glu Leu Gln Met Leu
560 565 570
Cys Pro Gln Glu Ala Pro Arg Ile Leu Ser Arg Leu Glu Ala Val
575 580 585
Arg Arg Met Leu Gly Ile Ser Pro
590

<210> 5
<211> 358
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2020010CD1

<400> 5
Met Ala Gly Pro Gly Pro Thr Phe Pro Leu His Arg Leu Val Trp
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Ala Asn Arg His Arg Glu Leu Glu Ala Ala Leu His Ser His Gln
20 25 30
His Asp Ile Glu Gln Glu Asp Pro Arg Gly Arg Thr Pro Leu Glu
35 40 45
Leu Ala Val Ser Leu Gly Asn Leu Glu Ser Val Arg Val Leu Leu
50 55 60
Arg His Asn Ala Asn Val Gly Lys Glu Asn Arg Gln Gly Trp Ala
65 70 75
Val Leu Gln Glu Ala Val Ser Thr Gly Asp Pro Glu Met Val Gln
80 85 90
Leu Val Leu Gln Tyr Arg Asp Tyr Gln Arg Ala Thr Gln Arg Leu
95 100 105
Ala Gly Ile Pro Glu Leu Leu Asn Lys Leu Arg Gln Ala Pro Asp
110 115 120
Phe Tyr Val Glu Met Lys Trp Glu Phe Thr Ser Trp Val Pro Leu
125 130 135
Val Ser Lys Met Cys Pro Ser Asp Val Tyr Arg Val Trp Lys Arg
140 145 150
Gly Glu Ser Leu Arg Val Asp Thr Ser Leu Leu Gly Phe Glu His
155 160 165

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Met Thr Trp Gln Arg Gly Arg Arg Ser Phe Ile Phe Lys Gly Gln
                170                 175                 180
Glu Ala Gly Ala Leu Val Met Glu Val Asp His Asp Arg Gln Val
                185                 190                 195
Val His Val Glu Thr Leu Gly Leu Thr Leu Gln Glu Pro Glu Thr
                200                 205                 210
Leu Leu Ala Ala Met Arg Pro Ser Glu Glu His Val Ala Ser Arg
                215                 220                 225
Leu Thr Ser Pro Ile Val Ser Thr His Leu Asp Thr Arg Asn Val
                230                 235                 240
Ala Phe Glu Arg Asn Lys Cys Gly Ile Trp Gly Trp Arg Ser Glu
                245                 250                 255
Lys Met Glu Thr Val Ser Gly Tyr Glu Ala Lys Val Tyr Ser Ala
                260                 265                 270
Thr Asn Val Glu Leu Val Thr Arg Thr Arg Thr Glu His Leu Ser
                275                 280                 285
Asp Gln Asp Lys Ser Arg Ser Lys Ala Gly Lys Thr Pro Phe Gln
                290                 295                 300
Ser Phe Leu Gly Met Ala Gln Gln His Ser Ser His Thr Gly Ala
                305                 310                 315
Pro Val Gln Gln Ala Ala Ser Pro Thr Asn Pro Thr Ala Ile Ser
                320                 325                 330
Pro Glu Glu Tyr Phe Asp Pro Asn Phe Ser Leu Glu Ser Arg Asn
                335                 340                 345
Ile Gly Arg Pro Ile Glu Met Ser Ser Lys Val Gln Arg
                350                 355
<210> 6
<211> 749
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2149037CD1

<400> 6
Met Ser Gly Ser His Thr Pro Ala Cys Gly Pro Phe Ser Ala Leu
  1                 5                  10                  15
Thr Pro Ser Ile Trp Pro Gln Glu Ile Leu Ala Lys Tyr Thr Gln
                 20                  25                  30
Lys Glu Glu Ser Ala Glu Gln Pro Glu Phe Tyr Tyr Asp Glu Phe
                 35                  40                  45
Gly Phe Arg Val Tyr Lys Glu Glu Gly Asp Glu Pro Gly Ser Ser
                 50                  55                  60
Leu Leu Ala Asn Ser Pro Leu Met Glu Asp Ala Pro Gln Arg Leu
                 65                  70                  75
Arg Trp Gln Ala His Leu Glu Phe Thr His Asn His Asp Val Gly
                 80                  85                  90
Asp Leu Thr Trp Asp Lys Ile Ala Val Ser Leu Pro Arg Ser Glu
                 95                 100                 105
Lys Leu Arg Ser Leu Val Leu Ala Gly Ile Pro His Gly Met Arg
                110                 115                 120
Pro Gln Leu Trp Met Arg Leu Ser Gly Ala Leu Gln Lys Lys Arg
                125                 130                 135
Asn Ser Glu Leu Ser Tyr Arg Glu Ile Val Lys Asn Ser Ser Asn
                140                 145                 150
Asp Glu Thr Ile Ala Ala Lys Gln Ile Glu Lys Asp Leu Leu Arg
                155                 160                 165
Thr Met Pro Ser Asn Ala Cys Phe Ala Ser Met Gly Ser Ile Gly
                170                 175                 180
Val Pro Arg Leu Arg Arg Val Leu Arg Ala Leu Ala Trp Leu Tyr
                185                 190                 195
Pro Glu Ile Gly Tyr Cys Gln Gly Thr Gly Met Val Ala Ala Cys
                200                 205                 210
Leu Leu Leu Phe Leu Glu Glu Glu Asp Ala Phe Trp Met Met Ser
                215                 220                 225
Ala Ile Ile Glu Asp Leu Leu Pro Ala Ser Tyr Phe Ser Thr Thr
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                230                 235                 240
Leu Leu Gly Val Gln Thr Asp Gln Arg Val Leu Arg His Leu Ile
            245                 250                 255
Val Gln Tyr Leu Pro Arg Leu Asp Lys Leu Leu Gln Glu His Asp
            260                 265                 270
Ile Glu Leu Ser Leu Ile Thr Leu His Trp Phe Leu Thr Ala Phe
            275                 280                 285
Ala Ser Val Val Asp Ile Lys Leu Leu Leu Arg Ile Trp Asp Leu
            290                 295                 300
Phe Phe Tyr Glu Gly Ser Arg Val Leu Phe Gln Leu Thr Leu Gly
            305                 310                 315
Met Leu His Leu Lys Glu Glu Glu Leu Ile Gln Ser Glu Asn Ser
            320                 325                 330
Ala Ser Ile Phe Asn Thr Leu Ser Asp Ile Pro Ser Gln Met Glu
            335                 340                 345
Asp Ala Glu Leu Leu Leu Gly Val Ala Met Arg Leu Ala Gly Ser
            350                 355                 360
Leu Thr Asp Val Ala Val Glu Thr Gln Arg Arg Lys His Leu Ala
            365                 370                 375
Tyr Leu Ile Ala Asp Gln Gly Gln Leu Leu Gly Ala Gly Thr Leu
            380                 385                 390
Thr Asn Leu Ser Gln Val Val Arg Arg Arg Thr Gln Arg Arg Lys
            395                 400                 405
Ser Thr Ile Thr Ala Leu Leu Phe Gly Glu Asp Asp Leu Glu Ala
            410                 415                 420
Leu Lys Ala Lys Asn Ile Lys Gln Thr Glu Leu Val Ala Asp Leu
            425                 430                 435
Arg Glu Ala Ile Leu Arg Val Ala Arg His Phe Gln Cys Thr Asp
            440                 445                 450
Pro Lys Asn Cys Ser Val Glu Leu Thr Pro Asp Tyr Ser Met Glu
            455                 460                 465
Ser His Gln Arg Asp His Glu Asn Tyr Val Ala Cys Ser Arg Ser
            470                 475                 480
His Arg Arg Arg Ala Lys Ala Leu Leu Asp Phe Glu Arg His Asp
            485                 490                 495
Asp Asp Glu Leu Gly Phe Arg Lys Asn Asp Ile Ile Thr Ile Val
            500                 505                 510
Ser Gln Lys Asp Glu His Cys Trp Val Gly Glu Leu Asn Gly Leu
            515                 520                 525
Arg Gly Trp Phe Pro Ala Lys Phe Val Glu Val Leu Asp Glu Arg
            530                 535                 540
Ser Lys Glu Tyr Ser Ile Ala Gly Asp Asp Ser Val Thr Glu Gly
            545                 550                 555
Val Thr Asp Leu Val Arg Gly Thr Leu Cys Pro Ala Leu Lys Ala
            560                 565                 570
Leu Phe Glu His Gly Leu Lys Lys Pro Ser Leu Leu Gly Gly Ala
            575                 580                 585
Cys His Pro Trp Leu Phe Ile Glu Glu Ala Ala Gly Arg Glu Val
            590                 595                 600
Glu Arg Asp Phe Ala Ser Val Tyr Ser Arg Leu Val Leu Cys Lys
            605                 610                 615
Thr Phe Arg Leu Asp Glu Asp Gly Lys Val Leu Thr Pro Glu Glu
            620                 625                 630
Leu Leu Tyr Arg Ala Val Gln Ser Val Asn Val Thr His Asp Ala
            635                 640                 645
Val His Ala Gln Met Asp Val Lys Leu Arg Ser Leu Ile Cys Val
            650                 655                 660
Gly Leu Asn Glu Gln Val Leu His Leu Trp Leu Glu Val Leu Cys
            665                 670                 675
Ser Ser Leu Pro Thr Val Glu Lys Trp Tyr Gln Pro Trp Ser Phe
            680                 685                 690
Leu Arg Ser Pro Gly Trp Val Gln Ile Lys Cys Glu Leu Arg Val
            695                 700                 705
Leu Cys Cys Phe Ala Phe Ser Leu Ser Gln Asp Trp Glu Leu Pro
            710                 715                 720
Ala Lys Arg Glu Ala Gln Gln Pro Leu Lys Glu Gly Val Arg Asp
            725                 730                 735
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Met Leu Val Lys His His Leu Phe Ser Trp Asp Val Asp Gly
740 745

<210> 7
<211> 139
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2162179CD1

<400> 7
Met Ala Asp Glu Lys Asp Arg Glu Glu Ile Ile Val Ala Glu Phe
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His Lys Lys Ile Lys Glu Ala Phe Glu Val Phe Asp His Glu Ser
20 25 30
Asn Asn Thr Val Asp Val Arg Glu Ile Gly Thr Ile Ile Arg Ser
35 40 45
Leu Gly Cys Cys Pro Thr Glu Gly Glu Leu His Asp Leu Ile Ala
50 55 60
Glu Val Glu Glu Glu Glu Pro Thr Gly Tyr Ile Arg Phe Glu Lys
65 70 75
Phe Leu Pro Val Met Thr Glu Ile Leu Leu Glu Arg Lys Tyr Arg
80 85 90
Pro Ile Pro Glu Asp Val Leu Leu Arg Ala Phe Glu Val Leu Asp
95 100 105
Ser Ala Lys Arg Gly Phe Leu Thr Lys Asp Glu Leu Ile Lys Tyr
110 115 120
Met Thr Glu Glu Gly Lys Cys Asp Leu Leu Leu Ile Thr Met Thr
125 130 135
Tyr Val Arg Asn

<210> 8
<211> 539
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2244706CD1

<400> 8
Met Val Gly Lys Pro Val His Lys Gly Ser Glu Ser Pro Asn Ser
1 5 10 15
Phe Leu Asp Gln Glu Tyr Arg Lys Arg Phe Asn Ile Val Glu Glu
20 25 30
Asp Thr Val Leu Tyr Cys Tyr Glu Tyr Glu Lys Gly Arg Ser Ser
35 40 45
Ser Gln Gly Arg Arg Glu Ser Thr Pro Thr Tyr Gly Lys Leu Arg
50 55 60
Pro Ile Ser Met Pro Val Glu Tyr Asn Trp Val Gly Asp Tyr Glu
65 70 75
Asp Pro Asn Lys Met Lys Arg Asp Ser Arg Arg Glu Asn Ser Leu
80 85 90
Leu Arg Tyr Met Ser Asn Glu Lys Ile Ala Gln Glu Glu Tyr Met
95 100 105
Phe Gln Arg Asn Ser Lys Lys Asp Thr Gly Lys Lys Ser Lys Lys
110 115 120
Lys Gly Asp Lys Ser Asn Ser Pro Thr His Tyr Ser Leu Leu Pro
125 130 135
Ser Leu Gln Met Asp Ala Leu Arg Gln Asp Ile Met Gly Thr Pro
140 145 150
Val Pro Glu Thr Thr Leu Tyr His Thr Phe Gln Gln Ser Ser Leu
155 160 165
Gln His Lys Ser Lys Lys Lys Asn Lys Gly Pro Ile Ala Gly Lys
170 175 180
Ser Lys Arg Arg Ile Ser Cys Lys Asp Leu Gly Arg Gly Asp Cys

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                185                 190                 195
Glu Gly Trp Leu Trp Lys Lys Lys Asp Ala Lys Ser Tyr Phe Ser
                200                 205                 210
Gln Lys Trp Lys Lys Tyr Trp Phe Val Leu Lys Asp Ala Ser Leu
                215                 220                 225
Tyr Trp Tyr Ile Asn Glu Glu Asp Glu Lys Ala Glu Gly Phe Ile
                230                 235                 240
Ser Leu Pro Glu Phe Lys Ile Asp Arg Ala Ser Glu Cys Arg Lys
                245                 250                 255
Lys Tyr Ala Phe Lys Ala Cys His Pro Lys Ile Lys Ser Phe Tyr
                260                 265                 270
Phe Ala Ala Glu His Leu Asp Asp Met Asn Arg Trp Leu Asn Arg
                275                 280                 285
Ile Asn Met Leu Thr Ala Gly Tyr Ala Glu Arg Glu Arg Ile Lys
                290                 295                 300
Gln Glu Gln Asp Tyr Trp Ser Glu Ser Asp Lys Glu Glu Ala Asp
                305                 310                 315
Thr Pro Ser Thr Pro Lys Gln Asp Ser Pro Pro Pro Pro Tyr Asp
                320                 325                 330
Thr Tyr Pro Arg Pro Pro Ser Met Ser Cys Ala Ser Pro Tyr Val
                335                 340                 345
Glu Ala Lys His Ser Arg Leu Ser Ser Thr Glu Thr Ser Gln Ser
                350                 355                 360
Gln Ser Ser His Glu Glu Phe Arg Gln Glu Val Thr Gly Ser Ser
                365                 370                 375
Ala Val Ser Pro Ile Arg Lys Thr Ala Ser Gln Arg Arg Ser Trp
                380                 385                 390
Gln Asp Leu Ile Glu Thr Pro Leu Thr Ser Ser Gly Leu His Tyr
                395                 400                 405
Leu Gln Thr Leu Pro Leu Glu Asp Ser Val Phe Ser Asp Ser Ala
                410                 415                 420
Ala Ile Ser Pro Glu His Arg Arg Gln Ser Thr Leu Pro Thr Gln
                425                 430                 435
Lys Cys His Leu Gln Asp His Tyr Gly Pro Tyr Pro Leu Ala Glu
                440                 445                 450
Ser Glu Met Met Gln Val Leu Asn Gly Asn Gly Gly Lys Pro Arg
                455                 460                 465
Arg Phe Thr Leu Pro Arg Asp Ser Gly Phe Asn His Cys Cys Leu
                470                 475                 480
Asn Ala Pro Val Ser Ala Cys Asp Pro Gln Asp Asp Val Gln Pro
                485                 490                 495
Pro Glu Val Glu Glu Glu Glu Asp Asp Glu Glu Glu Ala Trp Glu
                500                 505                 510
Ala Ala Gly Gly Asn Met Gly Glu Lys Ser Leu Phe Thr Ala Arg
                515                 520                 525
Val Gly Arg Pro Phe Met Gln Asn Gly Ser Thr Leu Trp His
                530                 535
<210> 9
<211> 319
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2316805CD1

<400> 9
Met Asp Pro Gln Asn Gln His Gly Ser Gly Ser Ser Leu Val Val
  1                 5                  10                  15
Ile Gln Gln Pro Ser Leu Asp Ser Arg Gln Arg Leu Asp Tyr Glu
                 20                  25                  30
Arg Glu Ile Gln Pro Thr Ala Ile Leu Ser Leu Asp Gln Ile Lys
                 35                  40                  45
Ala Ile Arg Gly Ser Asn Glu Tyr Thr Glu Gly Pro Ser Val Val
                 50                  55                  60
Lys Arg Pro Ala Pro Arg Thr Ala Pro Arg Gln Glu Lys His Glu
                 65                  70                  75
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Arg Thr His Glu Ile Ile Pro Ile Asn Val Asn Asn Asn Tyr Glu
                80                  85                  90
His Arg His Thr Ser His Leu Gly His Ala Val Leu Pro Ser Asn
                95                 100                 105
Ala Arg Gly Pro Ile Leu Ser Arg Ser Thr Ser Thr Gly Ser Ala
               110                 115                 120
Ala Ser Ser Gly Ser Asn Ser Ser Ala Ser Ser Glu Gln Gly Leu
               125                 130                 135
Leu Gly Arg Ser Pro Pro Thr Arg Pro Val Pro Gly His Arg Ser
               140                 145                 150
Glu Arg Ala Ile Arg Thr Gln Pro Lys Gln Leu Ile Val Asp Asp
               155                 160                 165
Leu Lys Gly Ser Leu Lys Glu Asp Leu Thr Gln His Lys Phe Ile
               170                 175                 180
Cys Glu Gln Cys Gly Lys Cys Lys Cys Gly Glu Cys Thr Ala Pro
               185                 190                 195
Arg Thr Leu Pro Ser Cys Leu Ala Cys Asn Arg Gln Cys Leu Cys
               200                 205                 210
Ser Ala Glu Ser Met Val Glu Tyr Gly Thr Cys Met Cys Leu Val
               215                 220                 225
Lys Gly Ile Phe Tyr His Cys Ser Asn Asp Asp Glu Gly Asp Ser
               230                 235                 240
Tyr Ser Asp Asn Pro Cys Ser Cys Ser Gln Ser His Cys Cys Ser
               245                 250                 255
Arg Tyr Leu Cys Met Gly Ala Met Ser Leu Phe Leu Pro Cys Leu
               260                 265                 270
Leu Cys Tyr Pro Pro Ala Lys Gly Cys Leu Lys Leu Cys Arg Arg
               275                 280                 285
Cys Tyr Asp Trp Ile His Arg Pro Gly Cys Arg Cys Lys Asn Ser
               290                 295                 300
Asn Thr Val Tyr Cys Lys Leu Glu Ser Cys Pro Ser Arg Gly Gln
               305                 310                 315
Gly Lys Pro Ser
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<210> 10
<211> 747
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2320010CD1

<400> 10

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Met Gly Lys Arg Asn Ile Ala Arg Val His Asp Ala Trp Leu Ser
  1               5                  10                  15
Lys His Phe Gly Ile Asp Arg Lys Ser Gln Thr Met Pro Ala Leu
               20                  25                  30
Arg Asn Arg Ser Gly Val Met Gln Ala Arg Leu Gln His Leu Ser
               35                  40                  45
Ser Leu Glu Ser Ser Phe Thr Leu Asn His Ser Ser Thr Thr Thr
               50                  55                  60
Glu Ala Asp Ile Phe His Gln Ala Leu Leu Ala Ala Asn Thr Ala
               65                  70                  75
Thr Glu Val Ser Leu Thr Val Leu Asp Thr Ile Ser Phe Phe Thr
               80                  85                  90
Gln Cys Phe Lys Thr Gln Leu Leu Asn Asn Asp Gly His Asn Pro
               95                 100                 105
Leu Met Lys Lys Val Phe Asp Ile His Leu Ala Phe Leu Lys Asn
              110                 115                 120
Gly Gln Ser Glu Val Ser Leu Lys His Val Phe Ala Ser Leu Arg
              125                 130                 135
Ala Phe Ile Ser Lys Phe Pro Ser Ala Phe Phe Lys Gly Arg Val
              140                 145                 150
Asn Met Cys Ala Ala Phe Cys Tyr Glu Val Leu Lys Cys Cys Thr
              155                 160                 165
Ser Lys Ile Ser Ser Thr Arg Asn Glu Ala Ser Ala Leu Leu Tyr
```

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                170                 175                 180
Leu Leu Met Arg Asn Asn Phe Glu Tyr Thr Lys Arg Lys Thr Phe
            185                 190                 195
Leu Arg Thr His Leu Gln Ile Ile Ile Ala Val Ser Gln Leu Ile
        200                 205                 210
Ala Asp Val Ala Leu Ser Gly Gly Ser Arg Phe Gln Glu Ser Leu
    215                 220                 225
Phe Ile Ile Asn Asn Phe Ala Asn Ser Asp Arg Pro Met Lys Ala
230                 235                 240
Thr Ala Phe Pro Ala Glu Val Lys Asp Leu Thr Lys Arg Ile Arg
            245                 250                 255
Thr Val Leu Met Ala Thr Ala Gln Met Lys Glu His Glu Lys Asp
        260                 265                 270
Pro Glu Met Leu Ile Asp Leu Gln Tyr Ser Leu Ala Lys Ser Tyr
    275                 280                 285
Ala Ser Thr Pro Glu Leu Arg Lys Thr Trp Leu Asp Ser Met Ala
290                 295                 300
Lys Ile His Val Lys Asn Gly Asp Phe Ser Glu Ala Ala Met Cys
            305                 310                 315
Tyr Val His Val Ala Ala Leu Val Ala Glu Phe Leu His Arg Lys
        320                 325                 330
Lys Leu Phe Pro Asn Gly Cys Ser Ala Phe Lys Lys Ile Thr Pro
    335                 340                 345
Asn Ile Asp Glu Glu Gly Ala Met Lys Glu Asp Ala Gly Met Met
350                 355                 360
Asp Val His Tyr Ser Glu Glu Val Leu Leu Glu Leu Leu Glu Gln
            365                 370                 375
Cys Val Asp Gly Leu Trp Lys Ala Glu Arg Tyr Glu Ile Ile Ser
        380                 385                 390
Glu Ile Ser Lys Leu Ile Val Pro Ile Tyr Glu Lys Arg Arg Glu
    395                 400                 405
Phe Glu Lys Leu Thr Gln Val Tyr Arg Thr Leu His Gly Ala Tyr
410                 415                 420
Thr Lys Ile Leu Glu Val Met His Thr Lys Lys Arg Leu Leu Gly
            425                 430                 435
Thr Phe Phe Arg Val Ala Phe Tyr Gly Gln Ser Phe Phe Glu Glu
        440                 445                 450
Glu Asp Gly Lys Glu Tyr Ile Tyr Lys Glu Pro Lys Leu Thr Gly
    455                 460                 465
Leu Ser Glu Ile Ser Leu Arg Leu Val Lys Leu Tyr Gly Glu Lys
470                 475                 480
Phe Gly Thr Glu Asn Val Lys Ile Ile Gln Asp Ser Asp Lys Val
            485                 490                 495
Asn Ala Lys Glu Leu Asp Pro Lys Tyr Ala His Ile Gln Val Thr
        500                 505                 510
Tyr Val Lys Pro Tyr Phe Asp Asp Lys Glu Leu Thr Glu Arg Lys
    515                 520                 525
Thr Glu Phe Glu Arg Asn His Asn Ile Ser Arg Phe Val Phe Glu
530                 535                 540
Ala Pro Tyr Thr Leu Ser Gly Lys Lys Gln Gly Cys Ile Glu Glu
            545                 550                 555
Gln Cys Lys Arg Arg Thr Ile Leu Thr Thr Ser Asn Ser Phe Pro
        560                 565                 570
Tyr Val Lys Lys Arg Ile Pro Ile Asn Cys Glu Gln Gln Ile Asn
    575                 580                 585
Leu Lys Pro Ile Asp Val Ala Thr Asp Glu Ile Lys Asp Lys Thr
590                 595                 600
Ala Glu Leu Gln Lys Leu Cys Ser Ser Thr Asp Val Asp Met Ile
            605                 610                 615
Gln Leu Gln Leu Lys Leu Gln Gly Cys Val Ser Val Gln Val Asn
        620                 625                 630
Ala Gly Pro Leu Ala Tyr Ala Arg Ala Phe Leu Asn Asp Ser Gln
    635                 640                 645
Ala Ser Lys Tyr Pro Pro Lys Lys Val Ser Glu Leu Lys Asp Met
650                 655                 660
Phe Arg Lys Phe Ile Gln Ala Cys Ser Ile Ala Leu Glu Leu Asn
665                 670                 675
```

```
Glu Arg Leu Ile Lys Glu Asp Gln Val Glu Tyr His Glu Gly Leu
                680                 685                 690
Lys Ser Asn Phe Arg Asp Met Val Lys Glu Leu Ser Asp Ile Ile
                695                 700                 705
His Glu Gln Ile Leu Gln Glu Asp Thr Met His Ser Pro Trp Met
                710                 715                 720
Ser Asn Thr Leu His Val Phe Cys Ala Ile Ser Gly Thr Ser Ser
                725                 730                 735
Asp Arg Gly Tyr Gly Ser Pro Arg Tyr Ala Glu Val
                740                 745
<210> 11
<211> 266
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2564901CD1

<400> 11
Met Gln Gly Ser Thr Arg Arg Met Gly Val Met Thr Asp Val His
  1                 5                  10                  15
Arg Arg Phe Leu Gln Leu Leu Met Thr His Gly Val Leu Glu Glu
                 20                  25                  30
Trp Asp Val Lys Arg Leu Gln Thr His Cys Tyr Lys Val His Asp
                 35                  40                  45
Arg Asn Ala Thr Val Asp Lys Leu Glu Asp Phe Ile Asn Asn Ile
                 50                  55                  60
Asn Ser Val Leu Glu Ser Leu Tyr Ile Glu Ile Lys Arg Gly Val
                 65                  70                  75
Thr Glu Asp Asp Gly Arg Pro Ile Tyr Ala Leu Val Asn Leu Ala
                 80                  85                  90
Thr Thr Ser Ile Ser Lys Met Ala Thr Asp Phe Ala Glu Asn Glu
                 95                 100                 105
Leu Asp Leu Phe Arg Lys Ala Leu Glu Leu Ile Ile Asp Ser Glu
                110                 115                 120
Thr Gly Phe Ala Ser Ser Thr Asn Ile Leu Asn Leu Val Asp Gln
                125                 130                 135
Leu Lys Gly Lys Lys Met Arg Lys Lys Glu Ala Glu Gln Val Leu
                140                 145                 150
Gln Lys Phe Val Gln Asn Lys Trp Leu Ile Glu Lys Glu Gly Glu
                155                 160                 165
Phe Thr Leu His Gly Arg Ala Ile Leu Glu Met Glu Gln Tyr Ile
                170                 175                 180
Arg Glu Thr Tyr Pro Asp Ala Val Lys Ile Cys Asn Ile Cys His
                185                 190                 195
Ser Leu Leu Ile Gln Gly Gln Ser Cys Glu Thr Cys Gly Ile Arg
                200                 205                 210
Met His Leu Pro Cys Val Ala Lys Tyr Phe Gln Ser Asn Ala Glu
                215                 220                 225
Pro Arg Cys Pro His Cys Asn Asp Tyr Trp Pro His Glu Ile Pro
                230                 235                 240
Lys Val Phe Asp Pro Glu Lys Glu Arg Glu Ser Gly Val Leu Lys
                245                 250                 255
Ser Asn Lys Lys Ser Leu Arg Ser Arg Gln His
                260                 265
<210> 12
<211> 345
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2615168CD1

<400> 12
Met Ser Val Thr Gly Gly Lys Met Ala Pro Ser Leu Thr Gln Glu
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  1               5                  10                  15
Ile Leu Ser His Leu Gly Leu Ala Ser Lys Thr Ala Ala Trp Gly
             20                  25                  30
Thr Leu Gly Thr Leu Arg Thr Phe Leu Asn Phe Ser Val Asp Lys
             35                  40                  45
Asp Ala Gln Arg Leu Leu Arg Ala Ile Thr Gly Gln Gly Val Asp
             50                  55                  60
Arg Ser Ala Ile Val Asp Val Leu Thr Asn Arg Ser Arg Glu Gln
             65                  70                  75
Arg Gln Leu Ile Ser Arg Asn Phe Gln Glu Arg Thr Gln Gln Asp
             80                  85                  90
Leu Met Lys Ser Leu Gln Ala Ala Leu Ser Gly Asn Leu Glu Arg
             95                 100                 105
Ile Val Met Ala Leu Leu Gln Pro Thr Ala Gln Phe Asp Ala Gln
            110                 115                 120
Glu Leu Arg Thr Ala Leu Lys Ala Ser Asp Ser Ala Val Asp Val
            125                 130                 135
Ala Ile Glu Ile Leu Ala Thr Arg Thr Pro Pro Gln Leu Gln Glu
            140                 145                 150
Cys Leu Ala Val Tyr Lys His Asn Phe Gln Val Glu Ala Val Asp
            155                 160                 165
Asp Ile Thr Ser Glu Thr Ser Gly Ile Leu Gln Asp Leu Leu Leu
            170                 175                 180
Ala Leu Ala Lys Gly Gly Arg Asp Ser Tyr Ser Gly Ile Ile Asp
            185                 190                 195
Tyr Asn Leu Ala Glu Gln Asp Val Gln Ala Leu Gln Arg Ala Glu
            200                 205                 210
Gly Pro Ser Arg Glu Glu Thr Trp Val Pro Val Phe Thr Gln Arg
            215                 220                 225
Asn Pro Glu His Leu Ile Arg Val Phe Asp Gln Tyr Gln Arg Ser
            230                 235                 240
Thr Gly Gln Glu Leu Glu Glu Ala Val Gln Asn Arg Phe His Gly
            245                 250                 255
Asp Ala Gln Val Ala Leu Leu Gly Leu Ala Ser Val Ile Lys Asn
            260                 265                 270
Thr Pro Leu Tyr Phe Ala Asp Lys Leu His Gln Ala Leu Gln Glu
            275                 280                 285
Thr Glu Pro Asn Tyr Gln Val Leu Ile Arg Ile Leu Ile Ser Arg
            290                 295                 300
Cys Glu Thr Asp Leu Leu Ser Ile Arg Ala Glu Phe Arg Lys Lys
            305                 310                 315
Phe Gly Lys Ser Leu Tyr Ser Ser Leu Gln Asp Ala Val Lys Gly
            320                 325                 330
Asp Cys Gln Ser Ala Leu Leu Ala Leu Cys Arg Ala Glu Asp Met
            335                 340                 345

<210> 13
<211> 437
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2658329CD1

<400> 13
Met Glu Lys Glu Leu Arg Ser Thr Ile Leu Phe Asn Ala Tyr Lys
  1               5                  10                  15
Lys Glu Ile Phe Thr Thr Asn Asn Gly Tyr Lys Ser Met Gln Lys
             20                  25                  30
Lys Leu Arg Ser Asn Trp Lys Ile Gln Ser Leu Lys Asp Glu Ile
             35                  40                  45
Thr Ser Glu Lys Leu Asn Gly Val Lys Leu Trp Ile Thr Ala Gly
             50                  55                  60
Pro Arg Glu Lys Phe Thr Ala Ala Glu Phe Glu Ile Leu Lys Lys
             65                  70                  75
Tyr Leu Asp Thr Gly Gly Asp Val Phe Val Met Leu Gly Glu Gly
```

```
                  80                  85                  90
Gly Glu Ser Arg Phe Asp Thr Asn Ile Asn Phe Leu Leu Glu Glu
                  95                 100                 105
Tyr Gly Ile Met Val Asn Asn Asp Ala Val Val Arg Asn Val Tyr
                 110                 115                 120
His Lys Tyr Phe His Pro Lys Glu Ala Leu Val Ser Ser Gly Val
                 125                 130                 135
Leu Asn Arg Glu Ile Ser Arg Ala Ala Gly Lys Ala Val Pro Gly
                 140                 145                 150
Ile Ile Asp Glu Glu Ser Ser Gly Asn Asn Ala Gln Ala Leu Thr
                 155                 160                 165
Phe Val Tyr Pro Phe Gly Ala Thr Leu Ser Val Met Lys Pro Ala
                 170                 175                 180
Val Ala Val Leu Ser Thr Gly Ser Val Cys Phe Pro Leu Asn Arg
                 185                 190                 195
Pro Ile Leu Ala Phe Tyr His Ser Lys Asn Gln Gly Gly Lys Leu
                 200                 205                 210
Ala Val Leu Gly Ser Cys His Met Phe Ser Asp Gln Tyr Leu Asp
                 215                 220                 225
Lys Glu Glu Asn Ser Lys Ile Met Asp Val Val Phe Gln Trp Leu
                 230                 235                 240
Thr Thr Gly Asp Ile His Leu Asn Gln Ile Asp Ala Glu Asp Pro
                 245                 250                 255
Glu Ile Ser Asp Tyr Met Met Leu Pro Tyr Thr Ala Thr Leu Ser
                 260                 265                 270
Lys Arg Asn Arg Glu Cys Leu Gln Glu Ser Asp Glu Ile Pro Arg
                 275                 280                 285
Asp Phe Thr Thr Leu Phe Asp Leu Ser Ile Phe Gln Leu Asp Thr
                 290                 295                 300
Thr Ser Phe His Ser Val Ile Glu Ala His Glu Gln Leu Asn Val
                 305                 310                 315
Lys His Glu Pro Leu Gln Leu Ile Gln Pro Gln Phe Glu Thr Pro
                 320                 325                 330
Leu Pro Thr Leu Gln Pro Ala Val Phe Pro Pro Ser Phe Arg Glu
                 335                 340                 345
Leu Pro Pro Pro Pro Leu Glu Leu Phe Asp Leu Asp Glu Thr Phe
                 350                 355                 360
Ser Ser Glu Lys Ala Arg Leu Ala Gln Ile Thr Asn Lys Cys Thr
                 365                 370                 375
Glu Glu Asp Leu Glu Phe Tyr Val Arg Lys Cys Gly Asp Ile Leu
                 380                 385                 390
Gly Val Thr Ser Lys Leu Pro Lys Asp Gln Gln Asp Ala Lys His
                 395                 400                 405
Ile Leu Glu His Val Phe Phe Gln Val Val Glu Phe Lys Lys Leu
                 410                 415                 420
Asn Gln Glu His Asp Ile Asp Thr Ser Glu Thr Ala Phe Gln Asn
                 425                 430                 435
Asn Phe
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<210> 14
<211> 441
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2708944CD1

<400> 14

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Met Val His Ile Lys Lys Gly Glu Leu Thr Gln Glu Glu Lys Glu
  1                 5                  10                  15
Leu Leu Glu Val Ile Gly Lys Gly Thr Val Gln Glu Ala Gly Thr
                 20                  25                  30
Leu Leu Ser Ser Lys Asn Val Arg Val Asn Cys Leu Asp Glu Asn
                 35                  40                  45
Gly Met Thr Pro Leu Met His Ala Ala Tyr Lys Gly Lys Leu Asp
                 50                  55                  60
```

```
Met Cys Lys Leu Leu Leu Arg His Gly Ala Asp Val Asn Cys His
                65                  70                  75
Gln His Glu His Gly Tyr Thr Ala Leu Met Phe Ala Ala Leu Ser
                80                  85                  90
Gly Asn Lys Asp Ile Thr Trp Val Met Leu Glu Ala Gly Ala Glu
                95                 100                 105
Thr Asp Val Val Asn Ser Val Gly Arg Thr Ala Ala Gln Met Ala
               110                 115                 120
Ala Phe Val Gly Gln His Asp Cys Val Thr Ile Ile Asn Asn Phe
               125                 130                 135
Phe Pro Arg Glu Arg Leu Asp Tyr Tyr Thr Lys Pro Gln Gly Leu
               140                 145                 150
Asp Lys Glu Pro Lys Leu Pro Pro Lys Leu Ala Gly Pro Leu His
               155                 160                 165
Lys Ile Ile Thr Thr Thr Asn Leu His Pro Val Lys Ile Val Met
               170                 175                 180
Leu Val Asn Glu Asn Pro Leu Leu Thr Glu Glu Ala Ala Leu Asn
               185                 190                 195
Lys Cys Tyr Arg Val Met Asp Leu Ile Cys Glu Lys Cys Met Lys
               200                 205                 210
Gln Arg Asp Met Asn Glu Val Leu Ala Met Lys Met His Tyr Ile
               215                 220                 225
Ser Cys Ile Phe Gln Lys Cys Ile Asn Phe Leu Lys Asp Gly Glu
               230                 235                 240
Asn Lys Leu Asp Thr Leu Ile Lys Ser Leu Leu Lys Gly Arg Ala
               245                 250                 255
Ser Asp Gly Phe Pro Val Tyr Gln Glu Lys Ile Ile Arg Glu Ser
               260                 265                 270
Ile Arg Lys Phe Pro Tyr Cys Glu Ala Thr Leu Leu Gln Gln Leu
               275                 280                 285
Val Arg Ser Ile Ala Pro Val Glu Ile Gly Ser Asp Pro Thr Ala
               290                 295                 300
Phe Ser Val Leu Thr Gln Ala Ile Thr Gly Gln Val Gly Phe Val
               305                 310                 315
Asp Val Glu Phe Cys Thr Thr Cys Gly Glu Lys Gly Ala Ser Lys
               320                 325                 330
Arg Cys Ser Val Cys Lys Met Val Ile Tyr Cys Asp Gln Thr Cys
               335                 340                 345
Gln Lys Thr His Trp Phe Thr His Lys Lys Ile Cys Lys Asn Leu
               350                 355                 360
Lys Asp Ile Tyr Glu Lys Gln Gln Leu Glu Ala Ala Lys Glu Lys
               365                 370                 375
Arg Gln Glu Glu Asn His Gly Lys Leu Asp Val Asn Ser Asn Cys
               380                 385                 390
Val Asn Glu Glu Gln Pro Glu Ala Glu Val Gly Ile Ser Gln Lys
               395                 400                 405
Asp Ser Asn Pro Glu Asp Ser Gly Glu Gly Lys Lys Glu Ser Leu
               410                 415                 420
Glu Ser Glu Ala Glu Leu Glu Gly Leu Gln Asp Ala Pro Ala Gly
               425                 430                 435
Pro Gln Val Ser Glu Glu
               440
<210> 15
<211> 487
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3315012CD1

<400> 15
Met Leu Arg Ala Pro Gly Cys Leu Leu Arg Thr Ser Val Ala Pro
  1                 5                  10                  15
Ala Ala Ala Leu Ala Ala Ala Leu Leu Ser Ser Leu Ala Arg Cys
                 20                  25                  30
Ser Leu Leu Glu Pro Arg Asp Pro Val Ala Ser Ser Leu Ser Pro
```

```
                35                  40                  45
Tyr Phe Gly Thr Lys Thr Arg Tyr Glu Asp Val Asn Pro Val Leu
            50                  55                  60
Leu Ser Gly Pro Glu Ala Pro Trp Arg Asp Pro Glu Leu Leu Glu
        65                  70                  75
Gly Thr Cys Thr Pro Val Gln Leu Val Ala Leu Ile Arg His Gly
    80                  85                  90
Thr Arg Tyr Pro Thr Val Lys Gln Ile Arg Lys Leu Arg Gln Leu
                95                  100                 105
His Gly Leu Leu Gln Ala Arg Gly Ser Arg Asp Gly Gly Ala Ser
            110                 115                 120
Ser Thr Gly Ser Arg Asp Leu Gly Ala Ala Leu Ala Asp Trp Pro
        125                 130                 135
Leu Trp Tyr Ala Asp Trp Met Asp Gly Gln Leu Val Glu Lys Gly
    140                 145                 150
Arg Gln Asp Met Arg Gln Leu Ala Leu Arg Leu Ala Ser Leu Phe
155                 160                 165
Pro Val Leu Phe Ser Arg Glu Asn Tyr Gly Arg Leu Arg Leu Ile
            170                 175                 180
Thr Ser Ser Lys His Arg Cys Met Asp Ser Ser Ala Ala Phe Leu
        185                 190                 195
Gln Gly Leu Trp Gln His Tyr His Pro Gly Leu Pro Pro Pro Asp
    200                 205                 210
Val Ala Asp Met Glu Phe Gly Pro Pro Thr Val Asn Asp Lys Leu
215                 220                 225
Met Arg Phe Phe Asp His Cys Glu Lys Phe Leu Thr Glu Val Glu
            230                 235                 240
Lys Asn Ala Thr Ala Leu Tyr His Val Glu Ala Phe Lys Thr Gly
        245                 250                 255
Pro Glu Met Gln Asn Ile Leu Lys Lys Val Ala Ala Thr Leu Gln
    260                 265                 270
Val Pro Val Asn Asp Leu Asn Ala Asp Leu Ile Gln Val Ala Phe
275                 280                 285
Phe Thr Cys Ser Phe Asp Leu Ala Ile Lys Gly Val Lys Ser Pro
            290                 295                 300
Trp Cys Asp Val Phe Asp Ile Asp Asp Ala Lys Val Leu Glu Tyr
305                 310                 315
Leu Asn Asp Leu Lys Gln Tyr Trp Lys Arg Gly Tyr Gly Tyr Thr
            320                 325                 330
Ile Asn Ser Arg Ser Ser Cys Thr Leu Phe Gln Asp Ile Phe Gln
        335                 340                 345
His Leu Asp Lys Ala Val Glu Gln Lys Gln Arg Ser Gln Pro Ile
    350                 355                 360
Ser Ser Pro Val Ile Leu Gln Phe Gly His Ala Glu Thr Leu Leu
365                 370                 375
Pro Leu Leu Ser Leu Met Gly Tyr Phe Lys Asp Lys Glu Pro Leu
            380                 385                 390
Thr Ala Tyr Asn Tyr Lys Lys Gln Met His Arg Lys Phe Arg Ser
        395                 400                 405
Gly Leu Ile Val Pro Tyr Ala Ser Asn Leu Ile Phe Val Leu Tyr
    410                 415                 420
His Cys Glu Asn Ala Lys Thr Pro Lys Glu Gln Phe Arg Val Gln
425                 430                 435
Met Leu Leu Asn Glu Lys Val Leu Pro Leu Ala Tyr Ser Gln Glu
            440                 445                 450
Thr Val Ser Phe Tyr Glu Asp Leu Lys Asn His Tyr Lys Asp Ile
        455                 460                 465
Leu Gln Ser Cys Gln Thr Ser Glu Glu Cys Glu Leu Ala Arg Ala
    470                 475                 480
Asn Ser Thr Ser Asp Glu Leu
485
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<210> 16
<211> 282
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 4155412CD1

<400> 16
Met Val Leu Gly Lys Val Lys Ser Leu Thr Ile Ser Phe Asp Cys
1 5 10 15
Leu Asn Asp Ser Asn Val Pro Val Tyr Ser Ser Gly Asp Thr Val
20 25 30
Ser Gly Arg Val Asn Leu Glu Val Thr Gly Glu Ile Arg Val Lys
35 40 45
Ser Leu Lys Ile His Ala Arg Gly His Ala Lys Val Arg Trp Thr
50 55 60
Glu Ser Arg Asn Ala Gly Ser Asn Thr Ala Tyr Thr Gln Asn Tyr
65 70 75
Thr Glu Glu Val Glu Tyr Phe Asn His Lys Asp Ile Leu Ile Gly
80 85 90
His Glu Arg Asp Asp Asp Asn Ser Glu Glu Gly Phe His Thr Ile
95 100 105
His Ser Gly Arg His Glu Tyr Ala Phe Ser Phe Glu Leu Pro Gln
110 115 120
Thr Pro Leu Ala Thr Ser Phe Glu Gly Arg His Gly Ser Val Arg
125 130 135
Tyr Trp Val Lys Ala Glu Leu His Arg Pro Trp Leu Leu Pro Val
140 145 150
Lys Leu Lys Lys Glu Phe Thr Val Phe Glu His Ile Asp Ile Asn
155 160 165
Thr Pro Ser Leu Leu Ser Pro Gln Ala Gly Thr Lys Glu Lys Thr
170 175 180
Leu Cys Cys Trp Phe Cys Thr Ser Gly Pro Ile Ser Leu Ser Ala
185 190 195
Lys Ile Glu Arg Lys Gly Tyr Thr Pro Gly Glu Ser Ile Gln Ile
200 205 210
Phe Ala Glu Ile Glu Asn Cys Ser Ser Arg Met Val Val Pro Arg
215 220 225
Gln Pro Phe Thr Lys His Arg Pro Ser Ile Ala Lys Gly Lys Leu
230 235 240
Arg Glu Leu Asn Ser Leu Trp Leu Thr Cys Val Gly Asn Ser Leu
245 250 255
Thr Ser Gly Lys Asn Arg Asp Val Glu Met Ala Ser Leu Leu Lys
260 265 270
Ile Ser Asn Ser Phe Pro Pro Ser Asn Ala Ser Asn
275 280

<210> 17
<211> 581
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4831840CD1

<400> 17
Met Ala Val Ala Gly Ala Val Ser Gly Glu Pro Leu Val His Trp
1 5 10 15
Cys Thr Gln Gln Leu Arg Lys Thr Phe Gly Leu Asp Val Ser Glu
20 25 30
Glu Ile Ile Gln Tyr Val Leu Ser Ile Glu Ser Ala Glu Glu Ile
35 40 45
Arg Glu Tyr Val Thr Asp Leu Leu Gln Gly Asn Glu Gly Lys Lys
50 55 60
Gly Gln Phe Ile Glu Glu Leu Ile Thr Lys Trp Gln Lys Asn Asp
65 70 75
Gln Glu Leu Ile Ser Asp Pro Leu Gln Gln Cys Phe Lys Lys Asp
80 85 90
Glu Ile Leu Asp Gly Gln Lys Ser Gly Asp His Leu Lys Arg Gly
95 100 105
Arg Lys Lys Gly Arg Asn Arg Gln Glu Val Pro Ala Phe Thr Glu

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                110                 115                 120
Pro Asp Thr Thr Ala Glu Val Lys Thr Pro Phe Asp Leu Ala Lys
            125                 130                 135
Ala Gln Glu Asn Ser Asn Ser Val Lys Lys Lys Thr Lys Phe Val
        140                 145                 150
Asn Leu Tyr Thr Arg Glu Gly Gln Asp Arg Leu Ala Val Leu Leu
    155                 160                 165
Pro Gly Arg His Pro Cys Asp Cys Leu Gly Gln Lys His Lys Leu
170                 175                 180
Ile Asn Asn Cys Leu Ile Cys Gly Arg Ile Val Cys Glu Gln Glu
            185                 190                 195
Gly Ser Gly Pro Cys Leu Phe Cys Gly Thr Leu Val Cys Thr His
        200                 205                 210
Glu Glu Gln Asp Ile Leu Gln Arg Asp Ser Asn Lys Ser Gln Lys
    215                 220                 225
Leu Leu Lys Lys Leu Met Ser Gly Val Glu Asn Ser Gly Lys Val
230                 235                 240
Asp Ile Ser Thr Lys Asp Leu Leu Pro His Gln Glu Leu Arg Ile
            245                 250                 255
Lys Ser Gly Leu Glu Lys Ala Ile Lys His Lys Asp Lys Leu Leu
        260                 265                 270
Glu Phe Asp Arg Thr Ser Ile Arg Arg Thr Gln Val Ile Asp Asp
    275                 280                 285
Glu Ser Asp Tyr Phe Ala Ser Asp Ser Asn Gln Trp Leu Ser Lys
290                 295                 300
Leu Glu Arg Glu Thr Leu Gln Lys Arg Glu Glu Glu Leu Arg Glu
            305                 310                 315
Leu Arg His Ala Ser Arg Leu Ser Lys Lys Val Thr Ile Asp Phe
        320                 325                 330
Ala Gly Arg Lys Ile Leu Glu Glu Glu Asn Ser Leu Ala Glu Tyr
    335                 340                 345
His Ser Arg Leu Asp Glu Thr Ile Gln Ala Ile Ala Asn Gly Thr
350                 355                 360
Leu Asn Gln Pro Leu Thr Lys Leu Asp Arg Ser Ser Glu Glu Pro
            365                 370                 375
Leu Gly Val Leu Val Asn Pro Asn Met Tyr Gln Ser Pro Pro Gln
        380                 385                 390
Trp Val Asp His Thr Gly Ala Ala Ser Gln Lys Lys Ala Phe Arg
    395                 400                 405
Ser Ser Gly Phe Gly Leu Glu Phe Asn Ser Phe Gln His Gln Leu
410                 415                 420
Arg Ile Gln Asp Gln Glu Phe Gln Glu Gly Phe Asp Gly Gly Trp
            425                 430                 435
Cys Leu Ser Val His Gln Pro Trp Ala Ser Leu Leu Val Arg Gly
        440                 445                 450
Ile Lys Arg Val Glu Gly Arg Ser Trp Tyr Thr Pro His Arg Gly
    455                 460                 465
Arg Leu Trp Ile Ala Ala Thr Ala Lys Lys Pro Ser Pro Gln Glu
470                 475                 480
Val Ser Glu Leu Gln Ala Thr Tyr Arg Leu Leu Arg Gly Lys Asp
            485                 490                 495
Val Glu Phe Pro Asn Asp Tyr Pro Ser Gly Cys Leu Leu Gly Cys
        500                 505                 510
Val Asp Leu Ile Asp Cys Leu Ser Gln Lys Gln Phe Lys Glu Gln
    515                 520                 525
Phe Pro Asp Ile Ser Gln Glu Ser Asp Ser Pro Phe Val Phe Ile
530                 535                 540
Cys Lys Asn Pro Gln Glu Met Val Val Lys Phe Pro Ile Lys Gly
            545                 550                 555
Asn Pro Lys Ile Trp Lys Leu Asp Ser Lys Ile His Gln Gly Ala
        560                 565                 570
Lys Lys Gly Leu Met Lys Gln Asn Lys Ala Val
    575                 580
<210> 18
<211> 530
<212> PRT
<213> Homo sapiens
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<220>
<221> misc_feature
<223> Incyte ID No: 5676581CD1

<400> 18

Met	Thr	Thr	Arg	Pro	Thr	Ala	Val	Lys	Ala	Thr	Gly	Gly	Leu	Cys	
1				5					10						15
Leu	Leu	Gly	Ala	Tyr	Ala	Asp	Ser	Asp	Asp	Asp	Asp	Asn	Asp	Val	
				20					25						30
Ser	Glu	Lys	Leu	Ala	Gln	Ser	Lys	Glu	Thr	Asn	Gly	Asn	Gln	Ser	
				35					40						45
Thr	Asp	Ile	Asp	Ser	Thr	Leu	Ala	Asn	Phe	Leu	Ala	Glu	Ile	Asp	
				50					55						60
Ala	Ile	Thr	Ala	Pro	Gln	Pro	Ala	Ala	Pro	Val	Gly	Ala	Ser	Ala	
				65					70						75
Pro	Pro	Pro	Thr	Pro	Pro	Arg	Pro	Glu	Pro	Lys	Glu	Ala	Ala	Thr	
				80					85						90
Ser	Thr	Leu	Ser	Ser	Ser	Thr	Ser	Asn	Gly	Thr	Asp	Ser	Thr	Gln	
				95					100						105
Thr	Ser	Gly	Trp	Gln	Tyr	Asp	Thr	Gln	Cys	Ser	Leu	Ala	Gly	Val	
				110					115						120
Gly	Ile	Glu	Met	Gly	Asp	Trp	Gln	Glu	Val	Trp	Asp	Glu	Asn	Thr	
				125					130						135
Gly	Cys	Tyr	Tyr	Tyr	Trp	Asn	Thr	Gln	Thr	Asn	Glu	Val	Thr	Trp	
				140					145						150
Glu	Leu	Pro	Gln	Tyr	Leu	Ala	Thr	Gln	Val	Gln	Gly	Leu	Gln	His	
				155					160						165
Tyr	Gln	Pro	Ser	Ser	Val	Pro	Gly	Ala	Glu	Thr	Ser	Phe	Val	Val	
				170					175						180
Asn	Thr	Asp	Ile	Tyr	Ser	Lys	Glu	Lys	Thr	Ile	Ser	Val	Ser	Ser	
				185					190						195
Ser	Lys	Ser	Gly	Pro	Val	Ile	Ala	Lys	Arg	Glu	Val	Lys	Lys	Glu	
				200					205						210
Val	Asn	Glu	Gly	Ile	Gln	Ala	Leu	Ser	Asn	Ser	Glu	Glu	Glu	Lys	
				215					220						225
Lys	Gly	Val	Ala	Ala	Ser	Leu	Leu	Ala	Pro	Leu	Leu	Pro	Glu	Gly	
				230					235						240
Ile	Lys	Glu	Glu	Glu	Glu	Arg	Trp	Arg	Arg	Lys	Val	Ile	Cys	Lys	
				245					250						255
Glu	Glu	Pro	Val	Ser	Glu	Val	Lys	Glu	Thr	Ser	Thr	Thr	Val	Glu	
				260					265						270
Glu	Ala	Thr	Thr	Ile	Val	Lys	Pro	Gln	Glu	Ile	Met	Leu	Asp	Asn	
				275					280						285
Ile	Glu	Asp	Pro	Ser	Gln	Glu	Asp	Leu	Cys	Ser	Val	Val	Gln	Ser	
				290					295						300
Gly	Glu	Ser	Glu	Glu	Glu	Glu	Glu	Gln	Asp	Thr	Leu	Glu	Leu	Glu	
				305					310						315
Leu	Val	Leu	Glu	Arg	Lys	Lys	Ala	Glu	Leu	Arg	Ala	Leu	Glu	Glu	
				320					325						330
Gly	Asp	Gly	Ser	Val	Ser	Gly	Ser	Ser	Pro	Arg	Ser	Asp	Ile	Ser	
				335					340						345
Gln	Pro	Ala	Ser	Gln	Asp	Gly	Met	Arg	Arg	Leu	Met	Ser	Lys	Arg	
				350					355						360
Gly	Lys	Trp	Lys	Met	Phe	Val	Arg	Ala	Thr	Ser	Pro	Glu	Ser	Thr	
				365					370						375
Ser	Arg	Ser	Ser	Ser	Lys	Thr	Gly	Arg	Asp	Thr	Pro	Glu	Asn	Gly	
				380					385						390
Glu	Thr	Ala	Ile	Gly	Ala	Glu	Asn	Ser	Glu	Lys	Ile	Asp	Glu	Asn	
				395					400						405
Ser	Asp	Lys	Glu	Met	Glu	Val	Glu	Glu	Ser	Pro	Glu	Lys	Ile	Lys	
				410					415						420
Val	Gln	Thr	Thr	Pro	Lys	Val	Glu	Glu	Glu	Gln	Asp	Leu	Lys	Phe	
				425					430						435
Gln	Ile	Gly	Glu	Leu	Ala	Asn	Thr	Leu	Thr	Ser	Lys	Phe	Glu	Phe	
				440					445						450
Leu	Gly	Ile	Asn	Arg	Gln	Ser	Ile	Ser	Asn	Phe	His	Val	Leu	Leu	
				455					460						465

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Leu Gln Thr Glu Thr Arg Ile Ala Asp Trp Arg Glu Gly Ala Leu
                470                 475                 480
Asn Gly Asn Tyr Leu Lys Arg Lys Leu Gln Asp Ala Ala Glu Gln
                485                 490                 495
Leu Lys Gln Tyr Glu Ile Asn Ala Thr Pro Lys Gly Trp Ser Cys
                500                 505                 510
His Trp Asp Arg Tyr Ala Leu Phe Ser Pro Phe His Leu Ser Pro
                515                 520                 525
Leu Thr Ser Gln Thr
                530
<210> 19
<211> 475
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 034159CD1

<400> 19
Met Gln Lys Ser Thr Asn Ser Asp Thr Ser Val Glu Thr Leu Asn
  1                 5                  10                  15
Ser Thr Arg Gln Gly Thr Gly Ala Val Gln Met Arg Ile Lys Asn
                 20                  25                  30
Ala Asn Ser His His Asp Arg Leu Ser Gln Ser Lys Ser Met Ile
                 35                  40                  45
Leu Thr Asp Val Gly Lys Val Thr Glu Pro Ile Ser Arg His Arg
                 50                  55                  60
Arg Asn His Ser Gln His Ile Leu Lys Asp Val Ile Pro Pro Leu
                 65                  70                  75
Glu Gln Leu Met Val Glu Lys Glu Gly Tyr Leu Gln Lys Ala Lys
                 80                  85                  90
Ile Ala Asp Gly Gly Lys Lys Leu Arg Lys Asn Trp Ser Thr Ser
                 95                 100                 105
Trp Ile Val Leu Ser Ser Arg Arg Ile Glu Phe Tyr Lys Glu Ser
                110                 115                 120
Lys Gln Gln Ala Leu Ser Asn Met Lys Thr Gly His Lys Pro Glu
                125                 130                 135
Ser Val Asp Leu Cys Gly Ala His Ile Glu Trp Ala Lys Glu Lys
                140                 145                 150
Ser Ser Arg Lys Asn Val Phe Gln Ile Thr Thr Val Ser Gly Asn
                155                 160                 165
Glu Phe Leu Leu Gln Ser Asp Ile Asp Phe Ile Ile Leu Asp Trp
                170                 175                 180
Phe His Ala Ile Lys Asn Ala Ile Asp Arg Leu Pro Lys Asp Ser
                185                 190                 195
Ser Cys Pro Ser Arg Asn Leu Glu Leu Phe Lys Ile Gln Arg Ser
                200                 205                 210
Ser Ser Thr Glu Leu Leu Ser His Tyr Asp Ser Asp Ile Lys Glu
                215                 220                 225
Gln Lys Pro Glu His Arg Lys Ser Leu Met Phe Arg Leu His His
                230                 235                 240
Ser Ala Ser Asp Thr Ser Asp Lys Asn Arg Val Lys Ser Arg Leu
                245                 250                 255
Lys Lys Phe Ile Thr Arg Arg Pro Ser Leu Lys Thr Leu Gln Glu
                260                 265                 270
Lys Gly Leu Ile Lys Asp Gln Ile Phe Gly Ser His Leu His Lys
                275                 280                 285
Val Cys Glu Arg Glu Asn Ser Thr Val Pro Trp Phe Val Lys Gln
                290                 295                 300
Cys Ile Glu Ala Val Glu Lys Arg Gly Leu Asp Val Asp Gly Ile
                305                 310                 315
Tyr Arg Val Ser Gly Asn Leu Ala Thr Ile Gln Lys Leu Arg Phe
                320                 325                 330
Ile Val Asn Gln Glu Glu Lys Leu Asn Leu Asp Asp Ser Gln Trp
                335                 340                 345
Glu Asp Ile His Val Val Thr Gly Ala Leu Lys Met Phe Phe Arg
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                350                 355                 360
Glu Leu Pro Glu Pro Leu Phe Pro Tyr Ser Phe Phe Glu Gln Phe
                365                 370                 375
Val Glu Ala Ile Lys Lys Gln Asp Asn Asn Thr Arg Ile Glu Ala
                380                 385                 390
Val Lys Ser Leu Val Gln Lys Leu Pro Pro Pro Asn Arg Asp Thr
                395                 400                 405
Met Lys Val Leu Phe Gly His Leu Thr Lys Ile Val Ala Lys Ala
                410                 415                 420
Ser Lys Asn Leu Met Ser Thr Gln Ser Leu Gly Ile Val Phe Gly
                425                 430                 435
Pro Thr Leu Leu Arg Ala Glu Asn Glu Thr Gly Asn Met Ala Ile
                440                 445                 450
His Met Val Tyr Gln Asn Gln Ile Ala Glu Leu Met Leu Ser Glu
                455                 460                 465
Tyr Ser Lys Ile Phe Gly Ser Glu Glu Asp
                470                 475
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<210> 20
<211> 368
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 129023CD1

<400> 20

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Met Ala Asn Glu Asn His Gly Ser Pro Arg Glu Glu Ala Ser Leu
  1                 5                  10                  15
Leu Ser His Ser Pro Gly Thr Ser Asn Gln Ser Gln Pro Cys Ser
                 20                  25                  30
Pro Lys Pro Ile Arg Leu Val Gln Asp Leu Pro Glu Glu Leu Val
                 35                  40                  45
His Ala Gly Trp Glu Lys Cys Trp Ser Arg Arg Glu Asn Arg Pro
                 50                  55                  60
Tyr Tyr Phe Asn Arg Phe Thr Asn Gln Ser Leu Trp Glu Met Pro
                 65                  70                  75
Val Leu Gly Gln His Asp Val Ile Ser Asp Pro Leu Gly Leu Asn
                 80                  85                  90
Ala Thr Pro Leu Pro Gln Asp Ser Ser Leu Val Glu Thr Pro Pro
                 95                 100                 105
Ala Glu Asn Lys Pro Arg Lys Arg Gln Leu Ser Glu Glu Gln Pro
                110                 115                 120
Ser Gly Asn Gly Val Lys Lys Pro Lys Ile Glu Ile Pro Val Thr
                125                 130                 135
Pro Thr Gly Gln Ser Val Pro Ser Ser Pro Ser Ile Pro Gly Thr
                140                 145                 150
Pro Thr Leu Lys Met Trp Gly Thr Ser Pro Glu Asp Lys Gln Gln
                155                 160                 165
Ala Ala Leu Leu Arg Pro Thr Glu Val Tyr Trp Asp Leu Asp Ile
                170                 175                 180
Gln Thr Asn Ala Val Ile Lys His Arg Gly Pro Ser Glu Val Leu
                185                 190                 195
Pro Pro His Pro Glu Val Glu Leu Leu Arg Ser Gln Leu Ile Leu
                200                 205                 210
Lys Leu Arg Gln His Tyr Arg Glu Leu Cys Gln Gln Arg Glu Gly
                215                 220                 225
Ile Glu Pro Pro Arg Glu Ser Phe Asn Arg Trp Met Leu Glu Arg
                230                 235                 240
Lys Val Val Asp Lys Gly Ser Asp Pro Leu Leu Pro Ser Asn Cys
                245                 250                 255
Glu Pro Val Val Ser Pro Ser Met Phe Arg Glu Ile Met Asn Asp
                260                 265                 270
Ile Pro Ile Arg Leu Ser Arg Ile Lys Phe Arg Glu Glu Ala Lys
                275                 280                 285
Arg Leu Leu Phe Lys Tyr Ala Glu Ala Ala Arg Arg Leu Ile Glu
                290                 295                 300
```

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                350                 355                 360
Phe Gln Glu Val Glu Asn Phe Phe Thr Phe Leu Lys Asn Ile Asn
                365                 370                 375
Asp Val Asp Thr Ala Leu Ser Phe Tyr His Met Ala Gly Ala Ser
                380                 385                 390
Leu Asp Lys Val Thr Met Gln Gln Val Ala Arg Thr Val Ala Lys
                395                 400                 405
Val Glu Leu Ser Asp His Val Cys Asp Val Val Phe Ala Leu Phe
                410                 415                 420
Asp Cys Asp Gly Asn Gly Glu Leu Ser Asn Lys Glu Phe Val Ser
                425                 430                 435
Ile Met Lys Gln Arg Leu Met Arg Gly Leu Glu Lys Pro Lys Asp
                440                 445                 450
Met Gly Phe Thr Arg Leu Met Gln Ala Met Trp Lys Cys Ala Gln
                455                 460                 465
Glu Thr Ala Trp Asp Phe Ala Leu Pro Lys Gln
                470                 475
<210> 22
<211> 171
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1682320CD1

<400> 22
Met Glu Lys Arg Leu Gln Glu Ala Gln Leu Tyr Lys Glu Glu Gly
  1                 5                  10                  15
Asn Gln Arg Tyr Arg Glu Gly Lys Tyr Arg Asp Ala Val Ser Arg
                 20                  25                  30
Tyr His Arg Ala Leu Leu Gln Leu Arg Gly Leu Asp Pro Ser Leu
                 35                  40                  45
Pro Ser Pro Leu Pro Asn Leu Gly Pro Gln Gly Pro Ala Leu Thr
                 50                  55                  60
Pro Glu Gln Glu Asn Ile Leu His Thr Thr Gln Thr Asp Cys Tyr
                 65                  70                  75
Asn Asn Leu Ala Ala Cys Leu Leu Gln Met Glu Pro Val Asn Tyr
                 80                  85                  90
Glu Arg Val Arg Glu Tyr Ser Gln Lys Val Leu Glu Arg Gln Pro
                 95                 100                 105
Asp Asn Ala Lys Ala Leu Tyr Arg Ala Gly Val Ala Phe Phe His
                110                 115                 120
Leu Gln Asp Tyr Asp Gln Ala Arg His Tyr Leu Leu Ala Ala Val
                125                 130                 135
Asn Arg Gln Pro Lys Asp Ala Asn Val Arg Arg Tyr Leu Gln Leu
                140                 145                 150
Thr Gln Ser Glu Leu Ser Ser Tyr His Arg Lys Glu Lys Gln Leu
                155                 160                 165
Tyr Leu Gly Met Phe Gly
                170
<210> 23
<211> 163
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1728263CD1

<400> 23
Met Phe Phe Ser Glu Ala Arg Ala Arg Ser Arg Thr Trp Glu Ala
  1                 5                  10                  15
Ser Pro Ser Glu His Arg Lys Trp Val Glu Val Phe Lys Ala Cys
                 20                  25                  30
Asp Glu Asp His Lys Gly Tyr Leu Ser Arg Glu Asp Phe Lys Thr
                 35                  40                  45
```

```
Ala Val Val Met Leu Phe Gly Tyr Lys Pro Ser Lys Ile Glu Val
                50                  55                  60
Asp Ser Val Met Ser Ser Ile Asn Pro Asn Thr Ser Gly Ile Leu
                65                  70                  75
Leu Glu Gly Phe Leu Asn Ile Val Arg Lys Lys Lys Glu Ala Gln
                80                  85                  90
Arg Tyr Arg Asn Glu Val Arg His Ile Phe Thr Ala Phe Asp Thr
                95                 100                 105
Tyr Tyr Arg Gly Phe Leu Thr Leu Glu Asp Phe Lys Lys Ala Phe
               110                 115                 120
Arg Gln Val Ala Pro Lys Leu Pro Glu Arg Thr Val Leu Glu Val
               125                 130                 135
Phe Arg Glu Val Asp Arg Asp Ser Asp Gly His Val Ser Phe Arg
               140                 145                 150
Asp Phe Glu Tyr Ala Leu Asn Tyr Gly Gln Lys Glu Ala
               155                 160
<210> 24
<211> 354
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1867626CD1

<400> 24
Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln
  1                 5                  10                  15
Ile Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His
               20                  25                  30
Ala Val Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr
               35                  40                  45
Arg Ile Ile Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr
               50                  55                  60
Ile Thr Pro Asn Met Thr Phe Thr Lys Thr Ser Gln Arg Phe Gly
               65                  70                  75
Gln Trp Ala Asp Ser Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe
               80                  85                  90
Ser Ser Glu His His Leu Ser Lys Phe Ala Glu Lys Phe Gln Glu
               95                 100                 105
Phe Lys Glu Ala Ala Arg Leu Ala Lys Glu Lys Ser Gln Glu Lys
              110                 115                 120
Met Glu Leu Thr Ser Thr Pro Ser Gln Glu Ser Ala Gly Gly Asp
              125                 130                 135
Leu Gln Ser Pro Leu Thr Pro Glu Ser Ile Asn Gly Thr Asp Asp
              140                 145                 150
Glu Arg Thr Pro Asp Val Thr Gln Asn Ser Glu Pro Arg Ala Glu
              155                 160                 165
Pro Thr Gln Asn Ala Leu Pro Phe Ser His Ser Ser Ala Ile Ser
              170                 175                 180
Lys His Trp Glu Ala Glu Leu Ala Thr Leu Lys Gly Asn Asn Ala
              185                 190                 195
Lys Leu Thr Ala Ala Leu Leu Glu Ser Thr Ala Asn Val Lys Gln
              200                 205                 210
Trp Lys Gln Gln Leu Ala Ala Tyr Gln Glu Glu Ala Glu Arg Leu
              215                 220                 225
His Lys Arg Val Thr Glu Leu Glu Cys Val Ser Ser Gln Ala Asn
              230                 235                 240
Ala Val His Thr His Lys Thr Glu Leu Asn Gln Thr Ile Gln Glu
              245                 250                 255
Leu Glu Glu Thr Leu Lys Leu Lys Glu Glu Glu Ile Glu Arg Leu
              260                 265                 270
Lys Gln Glu Ile Asp Asn Ala Arg Glu Leu Gln Glu Gln Arg Asp
              275                 280                 285
Ser Leu Thr Gln Lys Leu Gln Glu Val Glu Ile Arg Asn Lys Asp
              290                 295                 300
Leu Glu Gly Gln Leu Ser Asp Leu Glu Gln Arg Leu Glu Lys Ser
```

305 310 315
Gln Asn Glu Gln Glu Ala Phe Arg Asn Asn Leu Lys Thr Leu Leu
320 325 330
Glu Ile Leu Asp Gly Lys Ile Phe Glu Leu Thr Glu Leu Arg Asp
335 340 345
Asn Leu Ala Lys Leu Leu Glu Cys Ser
350

<210> 25
<211> 365
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1990126CD1

<400> 25
Met Asn Ile Met Asp Phe Asn Val Lys Lys Leu Ala Ala Asp Ala
1 5 10 15
Gly Thr Phe Leu Ser Arg Ala Val Gln Phe Thr Glu Glu Lys Leu
20 25 30
Gly Gln Ala Glu Lys Thr Glu Leu Asp Ala His Leu Glu Asn Leu
35 40 45
Leu Ser Lys Ala Glu Cys Thr Lys Ile Trp Thr Glu Lys Ile Met
50 55 60
Lys Gln Thr Glu Val Leu Leu Gln Pro Asn Pro Asn Ala Arg Ile
65 70 75
Glu Glu Phe Val Tyr Glu Lys Leu Asp Arg Lys Ala Pro Ser Arg
80 85 90
Ile Asn Asn Pro Glu Leu Leu Gly Gln Tyr Met Ile Asp Ala Gly
95 100 105
Thr Glu Phe Gly Pro Gly Thr Ala Tyr Gly Asn Ala Leu Ile Lys
110 115 120
Cys Gly Glu Thr Gln Lys Arg Ile Gly Thr Ala Asp Arg Glu Leu
125 130 135
Ile Gln Thr Ser Ala Leu Asn Phe Leu Thr Pro Leu Arg Asn Phe
140 145 150
Ile Glu Gly Asp Tyr Lys Thr Ile Ala Lys Glu Arg Lys Leu Leu
155 160 165
Gln Asn Lys Arg Leu Asp Leu Asp Ala Ala Lys Thr Arg Leu Lys
170 175 180
Lys Ala Lys Ala Ala Glu Thr Arg Asn Ser Ser Glu Gln Glu Leu
185 190 195
Arg Ile Thr Gln Ser Glu Phe Asp Arg Gln Ala Glu Ile Thr Arg
200 205 210
Leu Leu Leu Glu Gly Ile Ser Ser Thr His Ala His His Leu Arg
215 220 225
Cys Leu Asn Asp Phe Val Glu Ala Gln Met Thr Tyr Tyr Ala Gln
230 235 240
Cys Tyr Gln Tyr Met Leu Asp Leu Gln Lys Gln Leu Gly Ser Phe
245 250 255
Pro Ser Asn Tyr Leu Ser Asn Asn Asn Gln Thr Ser Val Thr Pro
260 265 270
Val Pro Ser Val Leu Pro Asn Ala Ile Gly Ser Ser Ala Met Ala
275 280 285
Ser Thr Ser Gly Leu Val Ile Thr Ser Pro Ser Asn Leu Ser Asp
290 295 300
Leu Lys Glu Cys Ser Gly Ser Arg Lys Ala Arg Val Leu Tyr Asp
305 310 315
Tyr Asp Ala Ala Asn Ser Thr Glu Leu Ser Leu Leu Ala Asp Glu
320 325 330
Val Ile Thr Val Phe Ser Val Val Gly Met Asp Ser Asp Trp Leu
335 340 345
Met Gly Glu Arg Gly Asn Gln Lys Gly Lys Val Pro Ile Thr Tyr
350 355 360
Leu Glu Leu Leu Asn
365

<210> 26
<211> 274
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2104180CD1

<400> 26
Met Ala Thr Thr Val Ser Thr Gln Arg Gly Pro Val Tyr Ile Gly
1 5 10 15
Glu Leu Pro Gln Asp Phe Leu Arg Ile Thr Pro Thr Gln Gln Gln
20 25 30
Arg Gln Val Gln Leu Asp Ala Gln Ala Ala Gln Gln Leu Gln Tyr
35 40 45
Gly Gly Ala Val Gly Thr Val Gly Arg Leu Asn Ile Thr Val Val
50 55 60
Gln Ala Lys Leu Ala Lys Asn Tyr Gly Met Thr Arg Met Asp Pro
65 70 75
Tyr Cys Arg Leu Arg Leu Gly Tyr Ala Val Tyr Glu Thr Pro Thr
80 85 90
Ala His Asn Gly Ala Lys Asn Pro Arg Trp Asn Lys Val Ile His
95 100 105
Cys Thr Val Pro Pro Gly Val Asp Ser Phe Tyr Leu Glu Ile Phe
110 115 120
Asp Glu Arg Ala Phe Ser Met Asp Asp Arg Ile Ala Trp Thr His
125 130 135
Ile Thr Ile Pro Glu Ser Leu Arg Gln Gly Lys Val Glu Asp Lys
140 145 150
Trp Tyr Ser Leu Ser Gly Arg Gln Gly Asp Asp Lys Glu Gly Met
155 160 165
Ile Asn Leu Val Met Ser Tyr Ala Leu Leu Pro Ala Ala Met Val
170 175 180
Met Pro Pro Gln Pro Val Val Leu Met Pro Thr Val Tyr Gln Gln
185 190 195
Gly Val Gly Tyr Val Pro Ile Thr Gly Met Pro Ala Val Cys Ser
200 205 210
Pro Gly Met Val Pro Val Ala Leu Pro Pro Ala Ala Val Asn Ala
215 220 225
Gln Pro Arg Cys Ser Glu Glu Asp Leu Lys Ala Ile Gln Asp Met
230 235 240
Phe Pro Asn Met Asp Gln Glu Val Ile Arg Ser Val Leu Glu Ala
245 250 255
Gln Arg Gly Asn Lys Asp Ala Ala Ile Asn Ser Leu Leu Gln Met
260 265 270
Gly Glu Glu Pro

<210> 27
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2122241CD1

<400> 27
Met Arg Arg Arg Gly Glu Ile Asp Met Ala Thr Glu Gly Asp Val
1 5 10 15
Glu Leu Glu Leu Glu Thr Glu Thr Ser Gly Pro Glu Arg Pro Pro
20 25 30
Glu Lys Pro Arg Lys His Asp Ser Gly Ala Ala Asp Leu Glu Arg
35 40 45
Val Thr Asp Tyr Ala Glu Glu Lys Glu Ile Gln Ser Ser Asn Leu
50 55 60
Glu Thr Ala Met Ser Val Ile Gly Asp Arg Arg Ser Arg Glu Gln

```
                    65                  70                  75
Lys Ala Lys Gln Glu Arg Glu Lys Glu Leu Ala Lys Val Thr Ile
                    80                  85                  90
Lys Lys Glu Asp Leu Glu Leu Ile Met Thr Glu Met Glu Ile Ser
                    95                 100                 105
Arg Ala Ala Ala Glu Arg Ser Leu Arg Glu His Met Gly Asn Val
                   110                 115                 120
Val Glu Ala Leu Ile Ala Leu Thr Asn
                   125
<210> 28
<211> 626
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2580428CD1

<400> 28
Met Gln Arg Ala Asp Ser Glu Gln Pro Ser Lys Arg Pro Arg Cys
  1                 5                  10                  15
Asp Asp Ser Pro Arg Thr Pro Ser Asn Thr Pro Ser Ala Glu Ala
                   20                  25                  30
Asp Trp Ser Pro Gly Leu Glu Leu His Pro Asp Tyr Lys Thr Trp
                   35                  40                  45
Gly Pro Glu Gln Val Cys Ser Phe Leu Arg Arg Gly Gly Phe Glu
                   50                  55                  60
Glu Pro Val Leu Leu Lys Asn Ile Arg Glu Asn Glu Ile Thr Gly
                   65                  70                  75
Ala Leu Leu Pro Cys Leu Asp Glu Ser Arg Phe Glu Asn Leu Gly
                   80                  85                  90
Val Ser Ser Leu Gly Glu Arg Lys Lys Leu Leu Ser Tyr Ile Gln
                   95                 100                 105
Arg Leu Val Gln Ile His Val Asp Thr Met Lys Val Ile Asn Asp
                  110                 115                 120
Pro Ile His Gly His Ile Glu Leu His Pro Leu Leu Val Arg Ile
                  125                 130                 135
Ile Asp Thr Pro Gln Phe Gln Arg Leu Arg Tyr Ile Lys Gln Leu
                  140                 145                 150
Gly Gly Gly Tyr Tyr Val Phe Pro Gly Ala Ser His Asn Arg Phe
                  155                 160                 165
Glu His Ser Leu Gly Val Gly Tyr Leu Ala Gly Cys Leu Val His
                  170                 175                 180
Ala Leu Gly Glu Lys Gln Pro Glu Leu Gln Ile Ser Glu Arg Asp
                  185                 190                 195
Val Leu Cys Val Gln Ile Ala Gly Leu Cys His Asp Leu Gly His
                  200                 205                 210
Gly Pro Phe Ser His Met Phe Asp Gly Arg Phe Ile Pro Leu Ala
                  215                 220                 225
Arg Pro Glu Val Lys Trp Thr His Glu Gln Gly Ser Val Met Met
                  230                 235                 240
Phe Glu His Leu Ile Asn Ser Asn Gly Ile Lys Pro Val Met Glu
                  245                 250                 255
Gln Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys Phe Ile Lys Glu
                  260                 265                 270
Gln Ile Val Gly Pro Leu Glu Ser Pro Val Glu Asp Ser Leu Trp
                  275                 280                 285
Pro Tyr Lys Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr Glu Ile
                  290                 295                 300
Val Ser Asn Lys Arg Asn Gly Ile Asp Val Asp Lys Trp Asp Tyr
                  305                 310                 315
Phe Ala Arg Asp Cys His His Leu Gly Ile Gln Asn Asn Phe Asp
                  320                 325                 330
Tyr Lys Arg Phe Ile Lys Phe Ala Arg Val Cys Glu Val Asp Asn
                  335                 340                 345
Glu Leu Arg Ile Cys Ala Arg Asp Lys Glu Val Gly Asn Leu Tyr
                  350                 355                 360
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```
Asp Met Phe His Thr Arg Asn Ser Leu His Arg Arg Ala Tyr Gln
                365                 370                 375
His Lys Val Gly Asn Ile Ile Asp Thr Met Ile Thr Asp Ala Phe
                380                 385                 390
Leu Lys Ala Asp Asp Tyr Ile Glu Ile Thr Gly Ala Gly Gly Lys
                395                 400                 405
Lys Tyr Arg Ile Ser Thr Ala Ile Asp Asp Met Glu Ala Tyr Thr
                410                 415                 420
Lys Leu Thr Asp Asn Ile Phe Leu Glu Ile Leu Tyr Ser Thr Asp
                425                 430                 435
Pro Lys Leu Lys Asp Ala Arg Glu Ile Leu Lys Gln Ile Glu Tyr
                440                 445                 450
Arg Asn Leu Phe Lys Tyr Val Gly Glu Thr Gln Pro Thr Gly Gln
                455                 460                 465
Ile Lys Ile Lys Arg Glu Asp Tyr Glu Ser Leu Pro Lys Glu Val
                470                 475                 480
Ala Ser Ala Lys Pro Lys Val Leu Leu Asp Val Lys Leu Lys Ala
                485                 490                 495
Glu Asp Phe Ile Val Asp Val Ile Asn Met Asp Tyr Gly Met Gln
                500                 505                 510
Glu Lys Asn Pro Ile Asp His Val Ser Phe Tyr Cys Lys Thr Ala
                515                 520                 525
Pro Asn Arg Ala Ile Arg Ile Thr Lys Asn Gln Val Ser Gln Leu
                530                 535                 540
Leu Pro Glu Lys Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys Lys
                545                 550                 555
Lys Val Asp Arg Lys Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val
                560                 565                 570
Gln Trp Cys Ala Asp Arg Asn Phe Thr Lys Pro Gln Asp Gly Asp
                575                 580                 585
Val Ile Ala Pro Leu Ile Thr Pro Gln Lys Lys Glu Trp Asn Asp
                590                 595                 600
Ser Thr Ser Val Gln Asn Pro Thr Arg Leu Arg Glu Ala Ser Lys
                605                 610                 615
Ser Arg Val Gln Leu Phe Lys Asp Asp Pro Met
                620                 625
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<210> 29
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3397189CD1

<400> 29

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Met Ala Pro Lys Lys Leu Ser Cys Leu Arg Ser Leu Leu Leu Pro
  1               5                  10                  15
Leu Ser Leu Thr Leu Leu Leu Pro Gln Ala Asp Thr Arg Ser Phe
                20                  25                  30
Val Val Asp Arg Gly His Asp Arg Phe Leu Leu Asp Gly Ala Pro
                35                  40                  45
Phe Arg Tyr Val Ser Gly Ser Leu His Tyr Phe Arg Val Pro Arg
                50                  55                  60
Val Leu Trp Ala Asp Arg Leu Leu Lys Met Arg Trp Ser Gly Leu
                65                  70                  75
Asn Ala Ile Gln Phe Tyr Val Pro Trp Asn Tyr His Glu Pro Gln
                80                  85                  90
Pro Gly Val Tyr Asn Phe Asn Gly Ser Arg Asp Leu Ile Ala Phe
                95                 100                 105
Leu Asn Glu Ala Ala Leu Ala Asn Leu Leu Val Ile Leu Arg Pro
               110                 115                 120
Gly Pro Tyr Ile Cys Ala Glu Trp Glu Met Gly Gly Leu Pro Ser
               125                 130                 135
Trp Leu Leu Arg Lys Pro Glu Ile His Leu Arg Thr Ser Asp Pro
               140                 145                 150
Gly Glu Leu Arg Gln Arg Ile
```

155

<210> 30
<211> 383
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4881249CD1

<400> 30
Met Leu Ser Arg Lys Lys Thr Lys Asn Glu Val Ser Lys Pro Ala
1 5 10 15
Glu Val Gln Gly Lys Tyr Val Lys Lys Glu Thr Ser Pro Leu Leu
20 25 30
Arg Asn Leu Met Pro Ser Phe Ile Arg His Gly Pro Thr Ile Pro
35 40 45
Arg Arg Thr Asp Ile Cys Leu Pro Asp Ser Ser Pro Asn Ala Phe
50 55 60
Ser Thr Ser Gly Asp Val Val Ser Arg Asn Gln Ser Phe Leu Arg
65 70 75
Thr Pro Ile Gln Arg Thr Pro His Glu Ile Met Arg Arg Glu Ser
80 85 90
Asn Arg Leu Ser Ala Pro Ser Tyr Leu Ala Arg Ser Leu Ala Asp
95 100 105
Val Pro Arg Glu Tyr Gly Ser Ser Gln Ser Phe Val Thr Glu Val
110 115 120
Ser Phe Ala Val Glu Asn Gly Asp Ser Gly Ser Arg Tyr Tyr Tyr
125 130 135
Ser Asp Asn Phe Phe Asp Gly Gln Arg Lys Arg Pro Leu Gly Asp
140 145 150
Arg Ala His Glu Asp Tyr Arg Tyr Tyr Glu Tyr Asn His Asp Leu
155 160 165
Phe Gln Arg Met Pro Gln Asn Gln Gly Arg His Ala Ser Gly Ile
170 175 180
Gly Arg Val Ala Ala Thr Ser Leu Gly Asn Leu Thr Asn His Gly
185 190 195
Ser Glu Asp Leu Pro Leu Pro Pro Gly Trp Ser Val Asp Trp Thr
200 205 210
Met Arg Gly Arg Lys Tyr Tyr Ile Asp His Asn Thr Asn Thr Thr
215 220 225
His Trp Ser His Pro Leu Glu Arg Glu Gly Leu Pro Pro Gly Trp
230 235 240
Glu Arg Val Glu Ser Ser Glu Phe Gly Thr Tyr Tyr Val Asp His
245 250 255
Thr Asn Lys Lys Ala Gln Tyr Arg His Pro Cys Ala Pro Ser Val
260 265 270
Pro Arg Tyr Asp Gln Pro Pro Pro Val Thr Tyr Gln Pro Gln Gln
275 280 285
Thr Glu Arg Asn Gln Ser Leu Leu Val Pro Ala Asn Pro Tyr His
290 295 300
Thr Ala Glu Ile Pro Asp Trp Leu Gln Val Tyr Ala Arg Ala Pro
305 310 315
Val Lys Tyr Asp His Ile Leu Lys Trp Glu Leu Phe Gln Leu Ala
320 325 330
Asp Leu Asp Thr Tyr Gln Gly Met Leu Lys Leu Leu Phe Met Lys
335 340 345
Glu Leu Glu Gln Ile Val Lys Met Tyr Glu Ala Tyr Arg Gln Ala
350 355 360
Leu Leu Thr Glu Leu Glu Asn Arg Lys Gln Arg Gln Gln Trp Tyr
365 370 375
Ala Gln Gln His Gly Lys Asn Phe
380

<210> 31
<211> 478
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 431871CD1

<400> 31

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Met Asp Thr Ser Asp Leu Phe Ala Ser Cys Arg Lys Gly Asp Val
  1               5                  10                  15
Gly Arg Val Arg Tyr Leu Leu Glu Gln Arg Asp Val Glu Val Asn
             20                  25                  30
Val Arg Asp Lys Trp Asp Ser Thr Pro Leu Tyr Tyr Ala Cys Leu
         35                  40                  45
Cys Gly His Glu Glu Leu Val Leu Tyr Leu Leu Ala Asn Gly Ala
     50                  55                  60
Arg Cys Glu Ala Asn Thr Phe Asp Gly Glu Arg Cys Leu Tyr Gly
 65                  70                  75
Ala Leu Ser Asp Pro Ile Arg Arg Ala Leu Arg Asp Tyr Lys Gln
             80                  85                  90
Val Thr Ala Ser Cys Arg Arg Arg Asp Tyr Tyr Asp Asp Phe Leu
         95                 100                 105
Gln Arg Leu Leu Glu Gln Gly Ile His Ser Asp Val Val Phe Val
    110                 115                 120
Val His Gly Lys Pro Phe Arg Val His Arg Cys Val Leu Gly Ala
    125                 130                 135
Arg Ser Ala Tyr Phe Ala Asn Met Leu Asp Thr Lys Trp Lys Gly
    140                 145                 150
Lys Ser Val Val Val Leu Arg His Pro Leu Ile Asn Pro Val Ala
    155                 160                 165
Phe Gly Ala Leu Leu Gln Tyr Leu Tyr Thr Gly Arg Leu Asp Ile
    170                 175                 180
Gly Val Glu His Val Ser Asp Cys Glu Arg Leu Ala Lys Gln Cys
    185                 190                 195
Gln Leu Trp Asp Leu Leu Ser Asp Leu Glu Ala Lys Cys Glu Lys
    200                 205                 210
Val Ser Glu Phe Val Ala Ser Lys Pro Gly Thr Cys Val Lys Val
    215                 220                 225
Leu Thr Ile Glu Pro Pro Pro Ala Asp Pro Arg Leu Arg Glu Asp
    230                 235                 240
Met Ala Leu Leu Ala Asp Cys Ala Leu Pro Pro Glu Leu Arg Gly
    245                 250                 255
Asp Leu Trp Glu Leu Pro Phe Pro Cys Pro Asp Gly Phe Asn Ser
    260                 265                 270
Cys Pro Asp Ile Cys Phe Arg Val Ala Gly Cys Ser Phe Leu Cys
    275                 280                 285
His Lys Ala Phe Phe Cys Gly Arg Ser Asp Tyr Phe Arg Ala Leu
    290                 295                 300
Leu Asp Asp His Phe Arg Glu Ser Glu Glu Pro Ala Thr Ser Gly
    305                 310                 315
Gly Pro Pro Ala Val Thr Leu His Gly Ile Ser Pro Asp Val Phe
    320                 325                 330
Thr His Val Leu Tyr Tyr Met Tyr Ser Asp His Thr Glu Leu Ser
    335                 340                 345
Pro Glu Ala Ala Tyr Asp Val Leu Ser Val Ala Asp Met Tyr Leu
    350                 355                 360
Leu Pro Gly Leu Lys Arg Leu Cys Gly Arg Ser Leu Ala Gln Met
    365                 370                 375
Leu Asp Glu Asp Thr Val Val Gly Val Trp Arg Val Ala Lys Leu
    380                 385                 390
Phe Arg Leu Ala Arg Leu Glu Asp Gln Cys Thr Glu Tyr Met Ala
    395                 400                 405
Lys Val Ile Glu Lys Leu Val Glu Arg Glu Asp Phe Val Glu Ala
    410                 415                 420
Val Lys Glu Glu Ala Ala Ala Val Ala Ala Arg Gln Glu Thr Asp
    425                 430                 435
Ser Ile Pro Leu Val Asp Asp Ile Arg Phe His Val Ala Ser Thr
    440                 445                 450
Val Gln Thr Tyr Ser Ala Ile Glu Glu Ala Gln Gln Arg Leu Arg
    455                 460                 465
```

Ala Leu Glu Asp Leu Leu Val Ser Ile Gly Leu Asp Cys
470 475

<210> 32
<211> 275
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 526155CD1

<400> 32
Met Ser Ala Glu Val Lys Val Thr Gly Gln Asn Gln Glu Gln Phe
1 5 10 15
Leu Leu Leu Ala Lys Ser Ala Lys Gly Ala Ala Leu Ala Thr Leu
20 25 30
Ile His Gln Val Leu Glu Ala Pro Gly Val Tyr Val Phe Gly Glu
35 40 45
Leu Leu Asp Met Pro Asn Val Arg Glu Leu Ala Glu Ser Asp Phe
50 55 60
Ala Ser Thr Phe Arg Leu Leu Thr Val Phe Ala Tyr Gly Thr Tyr
65 70 75
Ala Asp Tyr Leu Ala Glu Ala Arg Asn Leu Pro Pro Leu Thr Glu
80 85 90
Ala Gln Lys Asn Lys Leu Arg His Leu Ser Val Val Thr Leu Ala
95 100 105
Ala Lys Val Lys Cys Ile Pro Tyr Ala Val Leu Leu Glu Ala Leu
110 115 120
Ala Leu Arg Asn Val Arg Gln Leu Glu Asp Leu Val Ile Glu Ala
125 130 135
Val Tyr Ala Asp Val Leu Arg Gly Ser Leu Asp Gln Arg Asn Gln
140 145 150
Arg Leu Glu Val Asp Tyr Ser Ile Gly Arg Asp Ile Gln Arg Gln
155 160 165
Asp Leu Ser Ala Ile Ala Arg Thr Leu Gln Glu Trp Cys Val Gly
170 175 180
Cys Glu Val Val Leu Ser Gly Ile Glu Glu Gln Val Ser Arg Ala
185 190 195
Asn Gln His Lys Glu Gln Gln Leu Gly Leu Lys Gln Gln Ile Glu
200 205 210
Ser Glu Val Ala Asn Leu Lys Lys Thr Ile Lys Val Thr Thr Ala
215 220 225
Ala Ala Ala Ala Ala Thr Ser Gln Asp Pro Glu Gln His Leu Thr
230 235 240
Glu Leu Arg Glu Pro Ala Pro Gly Thr Asn Gln Arg Gln Pro Ser
245 250 255
Lys Lys Ala Ser Lys Gly Lys Gly Leu Arg Gly Ser Ala Lys Ile
260 265 270
Trp Ser Lys Ser Asn
275

<210> 33
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 676234CD1

<400> 33
Met Ala Ser Thr Gly Leu Glu Leu Leu Gly Met Thr Leu Ala Val
1 5 10 15
Leu Gly Trp Leu Gly Thr Leu Val Ser Cys Ala Leu Pro Leu Trp
20 25 30
Lys Val Thr Ala Phe Ile Gly Asn Ser Ile Val Val Ala Gln Val

```
                35                  40                  45
Val Trp Glu Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly
                50                  55                  60
Gln Met Gln Cys Lys Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln
                65                  70                  75
Asp Leu Gln Ala Ala Arg Ala Leu Cys Val Ile Ala Leu Leu Leu
                80                  85                  90
Ala Leu Leu Gly Leu Leu Val Ala Ile Thr Gly Ala Gln Cys Thr
                95                 100                 105
Thr Cys Val Glu Asp Glu Gly Ala Lys Ala Arg Ile Val Leu Thr
               110                 115                 120
Ala Gly Val Ile Leu Leu Leu Ala Gly Ile Leu Val Leu Ile Pro
               125                 130                 135
Val Cys Trp Thr Ala His Ala Ile Ile Gln Asp Phe Tyr Asn Pro
               140                 145                 150
Leu Val Ala Glu Ala Leu Lys Arg Glu Leu Gly Ala Ser Leu Tyr
               155                 160                 165
Leu Gly Trp Ala Ala Ala Ala Leu Leu Met Leu Gly Gly Gly Leu
               170                 175                 180
Leu Cys Cys Thr Cys Pro Pro Pro Gln Val Glu Arg Pro Arg Gly
               185                 190                 195
Pro Arg Leu Gly Tyr Ser Ile Pro Ser Arg Ser Gly Ala Ser Gly
               200                 205                 210
Leu Asp Lys Arg Asp Tyr Val
               215
<210> 34
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 720145CD1

<400> 34
Met Asp Asp Tyr Thr Ser Ala Ile Glu Val Gln Pro Asn Phe Glu
  1                 5                  10                  15
Val Pro Tyr Tyr Asn Arg Gly Leu Ile Leu Tyr Arg Leu Gly Tyr
                20                  25                  30
Phe Asp Asp Ala Leu Glu Asp Phe Lys Lys Val Leu Asp Leu Asn
                35                  40                  45
Pro Gly Phe Gln Asp Ala Thr Leu Ser Leu Lys Gln Thr Ile Leu
                50                  55                  60
Asp Lys Glu Glu Lys Gln Arg Arg Asn Val Ala Lys Asn Tyr
                65                  70
<210> 35
<211> 367
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1001951CD1

<400> 35
Met Val Gln Gln Phe Leu Arg Gln Ala Gln Arg Gly Thr Glu Glu
  1                 5                  10                  15
Lys Glu Arg Glu Gly Ala Leu Val Ser Leu Arg Arg Gly Leu Gln
                20                  25                  30
His Pro Glu Thr Gln Gln Thr Phe Ile Arg Ser Cys Val Cys Ile
                35                  40                  45
His Trp Val Thr Leu Ile Val Glu Ser Glu Ala Val Arg Arg Gln
                50                  55                  60
Leu Leu Pro Gln Gly Ile Val Pro Ala Leu Ala Ala Cys Ile Gln
                65                  70                  75
Ser Pro His Val Ala Val Leu Glu Ala Leu Gly Tyr Ala Leu Ser
                80                  85                  90
```

```
Gln Leu Leu Gln Ala Glu Glu Ala Pro Glu Lys Ile Ile Pro Ser
                95                  100                 105
Ile Leu Ala Ser Thr Leu Pro Gln His Met Leu Gln Met Leu Gln
            110                 115                 120
Pro Gly Pro Lys Leu Asn Pro Gly Val Ala Val Glu Phe Ala Trp
            125                 130                 135
Cys Leu His Tyr Ile Ile Cys Ser Gln Val Ser Asn Pro Leu Leu
            140                 145                 150
Ile Gly His Gly Ala Leu Ser Thr Leu Gly Leu Leu Leu Leu Asp
            155                 160                 165
Leu Ala Gly Ala Val Gln Lys Thr Glu Asp Ala Gly Leu Glu Leu
            170                 175                 180
Leu Ala Cys Pro Val Leu Arg Cys Leu Ser Asn Leu Leu Thr Glu
            185                 190                 195
Ala Ala Val Glu Thr Val Gly Gly Gln Met Gln Leu Arg Asp Glu
            200                 205                 210
Arg Val Val Ala Ala Leu Phe Ile Leu Leu Gln Phe Phe Phe Gln
            215                 220                 225
Lys Gln Pro Ser Leu Leu Pro Glu Gly Leu Trp Leu Leu Asn Asn
            230                 235                 240
Leu Thr Ala Asn Ser Pro Ser Phe Cys Thr Ser Leu Leu Ser Leu
            245                 250                 255
Asp Leu Ile Glu Pro Leu Leu Gln Leu Leu Pro Val Ser Asn Val
            260                 265                 270
Val Ser Val Met Val Leu Thr Val Leu Cys Asn Val Ala Glu Lys
            275                 280                 285
Gly Pro Ala Tyr Cys Gln Arg Leu Trp Pro Gly Pro Leu Leu Pro
            290                 295                 300
Ala Leu Leu His Thr Leu Ala Phe Ser Asp Thr Glu Val Val Gly
            305                 310                 315
Gln Ser Leu Glu Leu Leu His Leu Leu Phe Leu Tyr Gln Pro Glu
            320                 325                 330
Ala Val Gln Val Phe Leu Gln Gln Ser Gly Leu Gln Ala Trp Lys
            335                 340                 345
Arg His Gln Glu Glu Ala Gln Leu Gln Asp Arg Val Tyr Ala Leu
            350                 355                 360
Gln Gln Thr Ala Leu Gln Gly
            365

<210> 36
<211> 1113
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1243349CD1

<400> 36
Met Ile Ala Val Ser Phe Lys Cys Arg Cys Gln Ile Leu Arg Arg
  1               5                  10                  15
Leu Thr Lys Asp Glu Ser Pro Tyr Thr Lys Ser Ala Ser Gln Thr
            20                  25                  30
Lys Pro Pro Asp Gly Ala Leu Ala Val Arg Arg Gln Ser Ile Pro
            35                  40                  45
Glu Glu Phe Lys Gly Ser Thr Val Val Glu Leu Met Lys Lys Glu
            50                  55                  60
Gly Thr Thr Leu Gly Leu Thr Val Ser Gly Gly Ile Asp Lys Asp
            65                  70                  75
Gly Lys Pro Arg Val Ser Asn Leu Arg Gln Gly Gly Ile Ala Ala
            80                  85                  90
Arg Ser Asp Gln Leu Asp Val Gly Asp Tyr Ile Lys Ala Val Asn
            95                  100                 105
Gly Ile Asn Leu Ala Lys Phe Arg His Asp Glu Ile Ile Ser Leu
            110                 115                 120
Leu Lys Asn Val Gly Glu Arg Val Val Leu Glu Val Glu Tyr Glu
            125                 130                 135
Leu Pro Pro Val Ser Val Gln Gly Ser Ser Val Ile Phe Arg Thr
```

```
                140                 145                 150
Val Glu Val Thr Leu His Lys Glu Gly Asn Thr Phe Gly Phe Val
            155                 160                 165
Ile Arg Gly Gly Ala His Asp Asp Arg Asn Lys Ser Arg Pro Val
            170                 175                 180
Val Ile Thr Cys Val Arg Pro Gly Gly Pro Ala Asp Arg Glu Gly
            185                 190                 195
Thr Ile Lys Pro Gly Asp Arg Leu Leu Ser Val Asp Gly Ile Arg
            200                 205                 210
Leu Leu Gly Thr Thr His Ala Glu Ala Met Ser Ile Leu Lys Gln
            215                 220                 225
Cys Gly Gln Glu Ala Ala Leu Leu Ile Glu Tyr Asp Val Ser Val
            230                 235                 240
Met Asp Ser Val Ala Thr Ala Ser Gly Pro Leu Leu Val Glu Val
            245                 250                 255
Ala Lys Thr Pro Gly Ala Ser Leu Gly Val Ala Leu Thr Thr Ser
            260                 265                 270
Met Cys Cys Asn Lys Gln Val Ile Val Ile Asp Lys Ile Lys Ser
            275                 280                 285
Ala Ser Ile Ala Asp Arg Cys Gly Ala Leu His Val Gly Asp His
            290                 295                 300
Ile Leu Ser Ile Asp Gly Thr Ser Met Glu Tyr Cys Thr Leu Ala
            305                 310                 315
Glu Ala Thr Gln Phe Leu Ala Asn Thr Thr Asp Gln Val Lys Leu
            320                 325                 330
Glu Ile Leu Pro His His Gln Thr Arg Leu Ala Leu Lys Gly Pro
            335                 340                 345
Asp His Val Lys Ile Gln Arg Ser Asp Arg Gln Leu Thr Trp Asp
            350                 355                 360
Ser Trp Ala Ser Asn His Ser Ser Leu His Thr Asn His His Tyr
            365                 370                 375
Asn Thr Tyr His Pro Asp His Cys Arg Val Pro Ala Leu Thr Phe
            380                 385                 390
Pro Lys Ala Pro Pro Pro Asn Ser Pro Pro Ala Leu Val Ser Ser
            395                 400                 405
Ser Phe Ser Pro Thr Ser Met Ser Ala Tyr Ser Leu Ser Ser Leu
            410                 415                 420
Asn Met Gly Thr Leu Pro Arg Ser Leu Tyr Ser Thr Ser Pro Arg
            425                 430                 435
Gly Thr Met Met Arg Arg Arg Leu Lys Lys Lys Asp Phe Lys Ser
            440                 445                 450
Ser Leu Ser Leu Ala Ser Ser Thr Val Gly Leu Ala Gly Gln Val
            455                 460                 465
Val His Thr Glu Thr Thr Glu Val Val Leu Thr Ala Asp Pro Val
            470                 475                 480
Thr Gly Phe Gly Ile Gln Leu Gln Gly Ser Val Phe Ala Thr Glu
            485                 490                 495
Thr Leu Ser Ser Pro Pro Leu Ile Ser Tyr Ile Glu Ala Asp Ser
            500                 505                 510
Pro Ala Glu Arg Cys Gly Val Leu Gln Ile Gly Asp Arg Val Met
            515                 520                 525
Ala Ile Asn Gly Ile Pro Thr Glu Asp Ser Thr Phe Glu Glu Ala
            530                 535                 540
Ser Gln Leu Leu Arg Asp Ser Ser Ile Thr Ser Lys Val Thr Leu
            545                 550                 555
Glu Ile Glu Phe Asp Val Ala Glu Ser Val Ile Pro Ser Ser Gly
            560                 565                 570
Thr Phe His Val Lys Leu Pro Lys Lys His Asn Val Glu Leu Gly
            575                 580                 585
Ile Thr Ile Ser Ser Pro Ser Ser Arg Lys Pro Gly Asp Pro Leu
            590                 595                 600
Val Ile Ser Asp Ile Lys Lys Gly Ser Val Ala His Arg Thr Gly
            605                 610                 615
Thr Leu Glu Leu Gly Asp Lys Leu Leu Ala Ile Asp Asn Ile Arg
            620                 625                 630
Leu Asp Asn Cys Ser Met Glu Asp Ala Val Gln Ile Leu Gln Gln
            635                 640                 645
```

Cys Glu Asp Leu Val Lys Leu Lys Ile Arg Lys Asp Glu Asp Asn
650 655 660
Ser Asp Glu Gln Glu Ser Ser Gly Ala Ile Ile Tyr Thr Val Glu
665 670 675
Leu Lys Arg Tyr Gly Gly Pro Leu Gly Ile Thr Ile Ser Gly Thr
680 685 690
Glu Glu Pro Phe Asp Pro Ile Ile Ile Ser Ser Leu Thr Lys Gly
695 700 705
Gly Leu Ala Glu Arg Thr Gly Ala Ile His Ile Gly Asp Arg Ile
710 715 720
Leu Ala Ile Asn Ser Ser Ser Leu Lys Gly Lys Pro Leu Ser Glu
725 730 735
Ala Ile His Leu Leu Gln Met Ala Gly Glu Thr Val Thr Leu Lys
740 745 750
Ile Lys Lys Gln Thr Asp Ala Gln Ser Ala Ser Ser Pro Lys Lys
755 760 765
Phe Pro Ile Ser Ser His Leu Ser Asp Leu Gly Asp Val Glu Glu
770 775 780
Asp Ser Ser Pro Ala Gln Lys Pro Gly Lys Leu Ser Asp Met Tyr
785 790 795
Pro Ser Thr Val Pro Ser Val Asp Ser Ala Val Asp Ser Trp Asp
800 805 810
Gly Ser Ala Ile Asp Thr Ser Tyr Gly Thr Glu Gly Thr Ser Phe
815 820 825
Gln Ala Ser Gly Tyr Asn Phe Asn Thr Tyr Asp Trp Arg Ser Pro
830 835 840
Lys Gln Arg Gly Ser Leu Ser Pro Val Thr Lys Pro Arg Ser Gln
845 850 855
Thr Tyr Pro Asp Val Gly Leu Ser Tyr Glu Asp Trp Asp Arg Ser
860 865 870
Thr Ala Ser Gly Phe Ala Gly Ala Ala Asp Ser Ala Glu Thr Glu
875 880 885
Gln Glu Glu Asn Phe Trp Ser Gln Ala Leu Glu Asp Leu Glu Thr
890 895 900
Cys Gly Gln Ser Gly Ile Leu Arg Glu Leu Glu Ala Thr Ile Met
905 910 915
Ser Gly Ser Thr Met Ser Leu Asn His Glu Ala Pro Thr Pro Arg
920 925 930
Ser Gln Leu Gly Arg Gln Ala Ser Phe Gln Glu Arg Ser Ser Ser
935 940 945
Arg Pro His Tyr Ser Gln Thr Thr Arg Ser Asn Thr Leu Pro Ser
950 955 960
Asp Val Gly Arg Lys Ser Val Thr Leu Arg Lys Met Lys Gln Glu
965 970 975
Ile Lys Glu Ile Met Ser Pro Thr Pro Val Glu Leu His Lys Val
980 985 990
Thr Leu Tyr Lys Asp Ser Asp Met Glu Asp Phe Gly Phe Ser Val
995 1000 1005
Ala Asp Gly Leu Leu Glu Lys Gly Val Tyr Val Lys Asn Ile Arg
1010 1015 1020
Pro Ala Gly Pro Gly Asp Leu Gly Gly Leu Lys Pro Tyr Asp Arg
1025 1030 1035
Leu Leu Gln Val Asn His Val Arg Thr Arg Asp Phe Asp Cys Cys
1040 1045 1050
Leu Val Val Pro Leu Ile Ala Glu Ser Gly Asn Lys Leu Asp Leu
1055 1060 1065
Val Ile Ser Arg Asn Pro Leu Ala Ser Gln Lys Ser Ile Asp Gln
1070 1075 1080
Gln Ser Leu Pro Gly Asp Trp Ser Glu Gln Asn Ser Ala Phe Phe
1085 1090 1095
Gln Gln Pro Ser His Gly Gly Asn Leu Glu Thr Arg Glu Pro Thr
1100 1105 1110
Asn Thr Leu

<210> 37
<211> 511
<212> PRT

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1338201CD1

<400> 37

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Met Ser Arg Gly Pro Glu Glu Val Asn Arg Leu Thr Glu Ser Thr
  1               5                  10                  15
Tyr Arg Asn Val Met Glu Gln Phe Asn Pro Gly Leu Arg Asn Leu
             20                  25                  30
Ile Asn Leu Gly Lys Asn Tyr Glu Lys Ala Val Asn Ala Met Ile
         35                  40                  45
Leu Ala Gly Lys Ala Tyr Tyr Asp Gly Val Ala Lys Ile Gly Glu
     50                  55                  60
Ile Ala Thr Gly Ser Pro Val Ser Thr Glu Leu Gly His Val Leu
 65                  70                  75
Ile Glu Ile Ser Ser Thr His Lys Lys Leu Asn Glu Ser Leu Asp
             80                  85                  90
Glu Asn Phe Lys Lys Phe His Lys Glu Ile Ile His Glu Leu Glu
         95                 100                 105
Lys Lys Ile Glu Leu Asp Val Lys Tyr Met Asn Ala Thr Leu Lys
    110                 115                 120
Arg Tyr Gln Thr Glu His Lys Asn Lys Leu Glu Ser Leu Glu Lys
125                 130                 135
Ser Gln Ala Glu Leu Lys Lys Ile Arg Arg Lys Ser Gln Gly Ser
    140                 145                 150
Arg Asn Ala Leu Lys Tyr Glu His Lys Glu Ile Glu Tyr Val Glu
155                 160                 165
Thr Val Thr Ser Arg Gln Ser Glu Ile Gln Lys Phe Ile Ala Asp
            170                 175                 180
Gly Cys Lys Glu Ala Leu Leu Glu Glu Lys Arg Arg Phe Cys Phe
        185                 190                 195
Leu Val Asp Lys His Cys Gly Phe Ala Asn His Ile His Tyr Tyr
    200                 205                 210
His Leu Gln Ser Ala Glu Leu Leu Asn Ser Lys Leu Pro Arg Trp
215                 220                 225
Gln Glu Thr Cys Val Asp Ala Ile Lys Val Pro Glu Lys Ile Met
            230                 235                 240
Asn Met Ile Glu Glu Ile Lys Thr Pro Ala Ser Thr Pro Val Ser
        245                 250                 255
Gly Thr Pro Gln Ala Ser Pro Met Ile Glu Arg Ser Asn Val Val
    260                 265                 270
Arg Lys Asp Tyr Asp Thr Leu Ser Lys Cys Ser Pro Lys Met Pro
275                 280                 285
Pro Ala Pro Ser Gly Arg Ala Tyr Thr Ser Pro Leu Ile Asp Met
            290                 295                 300
Phe Asn Asn Pro Ala Thr Ala Ala Pro Asn Ser Gln Arg Val Asn
        305                 310                 315
Asn Ser Thr Gly Thr Ser Glu Asp Pro Ser Leu Gln Arg Ser Val
    320                 325                 330
Ser Val Ala Thr Gly Leu Asn Met Met Lys Lys Gln Lys Val Lys
335                 340                 345
Thr Ile Phe Pro His Thr Ala Gly Ser Asn Lys Thr Leu Leu Ser
            350                 355                 360
Phe Ala Gln Gly Asp Val Ile Thr Leu Leu Ile Pro Glu Glu Lys
        365                 370                 375
Asp Gly Trp Leu Tyr Gly Glu His Asp Val Ser Lys Ala Arg Gly
    380                 385                 390
Trp Phe Pro Ser Ser Tyr Thr Lys Leu Leu Glu Glu Asn Glu Thr
395                 400                 405
Glu Ala Val Thr Val Pro Thr Pro Ser Pro Thr Pro Val Arg Ser
            410                 415                 420
Ile Ser Thr Val Asn Leu Ser Glu Asn Ser Ser Val Val Ile Pro
        425                 430                 435
Pro Pro Asp Tyr Leu Glu Cys Leu Ser Met Gly Ala Ala Ala Asp
    440                 445                 450
```

```
Arg Arg Ala Asp Ser Ala Arg Thr Thr Ser Thr Phe Lys Ala Pro
                455                 460                 465
Ala Ser Lys Pro Glu Thr Ala Ala Pro Asn Asp Ala Asn Gly Thr
                470                 475                 480
Ala Lys Pro Pro Phe Leu Ser Gly Glu Asn Pro Phe Ala Thr Val
                485                 490                 495
Lys Leu Arg Pro Thr Val Thr Asn Asp Arg Ser Ala Pro Ile Ile
                500                 505                 510
Arg
```

<210> 38
<211> 1177
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1405141CD1

<400> 38

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Met Thr Thr Ile Leu Lys Pro Ser Ala Asp Phe Leu Thr Ser Asn
  1               5                  10                  15
Lys Leu Leu Lys Tyr Ser Trp Phe Phe Phe Asp Val Leu Ile Lys
                20                  25                  30
Ser Met Ala Gln His Leu Ile Glu Asn Ser Lys Val Lys Leu Leu
                35                  40                  45
Arg Asn Gln Arg Phe Pro Ala Ser Tyr His His Ala Val Glu Thr
                50                  55                  60
Val Val Asn Met Leu Met Pro His Ile Thr Gln Lys Phe Arg Asp
                65                  70                  75
Asn Pro Glu Ala Ser Lys Asn Ala Asn His Ser Leu Ala Val Phe
                80                  85                  90
Ile Lys Arg Cys Phe Thr Phe Met Asp Arg Gly Phe Val Phe Lys
                95                 100                 105
Gln Ile Asn Asn Tyr Ile Ser Cys Phe Ala Pro Gly Asp Pro Lys
               110                 115                 120
Thr Leu Phe Glu Tyr Lys Phe Glu Phe Leu Arg Val Val Cys Asn
               125                 130                 135
His Glu His Tyr Ile Pro Leu Asn Leu Pro Met Pro Phe Gly Lys
               140                 145                 150
Gly Arg Ile Gln Arg Tyr Gln Asp Leu Gln Leu Asp Tyr Ser Leu
               155                 160                 165
Thr Asp Glu Phe Cys Arg Asn His Phe Leu Val Gly Leu Leu Leu
               170                 175                 180
Arg Glu Val Gly Thr Ala Leu Gln Glu Phe Arg Glu Val Arg Leu
               185                 190                 195
Ile Ala Ile Ser Val Leu Lys Asn Leu Leu Ile Lys His Ser Phe
               200                 205                 210
Asp Asp Arg Tyr Ala Ser Arg Ser His Gln Ala Arg Ile Ala Thr
               215                 220                 225
Leu Tyr Leu Pro Leu Phe Gly Leu Leu Ile Glu Asn Val Gln Arg
               230                 235                 240
Ile Asn Val Arg Asp Val Ser Pro Phe Pro Val Asn Ala Gly Met
               245                 250                 255
Thr Val Lys Asp Glu Ser Leu Ala Leu Pro Ala Val Asn Pro Leu
               260                 265                 270
Val Thr Pro Gln Lys Gly Ser Thr Leu Asp Asn Ser Leu His Lys
               275                 280                 285
Asp Leu Leu Gly Ala Ile Ser Gly Ile Ala Ser Pro Tyr Thr Thr
               290                 295                 300
Ser Thr Pro Asn Ile Asn Ser Val Arg Asn Ala Asp Ser Arg Gly
               305                 310                 315
Ser Leu Ile Ser Thr Asp Ser Gly Asn Ser Leu Pro Glu Arg Asn
               320                 325                 330
Ser Glu Lys Ser Asn Ser Leu Asp Lys His Gln Gln Ser Ser Thr
               335                 340                 345
Leu Gly Asn Ser Val Val Arg Cys Asp Lys Leu Asp Gln Ser Glu
```

```
                350                 355                 360
Ile Lys Ser Leu Leu Met Cys Phe Leu Tyr Ile Leu Lys Ser Met
            365                 370                 375
Ser Asp Asp Ala Leu Phe Thr Tyr Trp Asn Lys Ala Ser Thr Ser
        380                 385                 390
Glu Leu Met Asp Phe Phe Thr Ile Ser Glu Val Cys Leu His Gln
    395                 400                 405
Phe Gln Tyr Met Gly Lys Arg Tyr Ile Ala Ser Val Arg Lys Ile
410                 415                 420
Ser Ser Val Leu Gly Ile Ser Val Asp Asn Gly Tyr Gly His Ser
425                 430                 435
Asp Ala Asp Val Leu His Gln Ser Leu Leu Glu Ala Asn Ile Ala
440                 445                 450
Thr Glu Val Cys Leu Thr Ala Leu Asp Thr Leu Ser Leu Phe Thr
455                 460                 465
Leu Ala Phe Lys Asn Gln Leu Leu Ala Asp His Gly His Asn Pro
470                 475                 480
Leu Met Lys Lys Val Phe Asp Val Tyr Leu Cys Phe Leu Gln Lys
485                 490                 495
His Gln Ser Glu Thr Ala Leu Lys Asn Val Phe Thr Ala Leu Arg
500                 505                 510
Ser Leu Ile Tyr Lys Phe Pro Ser Thr Phe Tyr Glu Gly Arg Ala
515                 520                 525
Asp Met Cys Ala Ala Leu Cys Tyr Glu Ile Leu Lys Cys Cys Asn
530                 535                 540
Ser Lys Leu Ser Ser Ile Arg Thr Glu Ala Ser Gln Leu Leu Tyr
545                 550                 555
Phe Leu Met Arg Asn Asn Phe Asp Tyr Thr Gly Lys Lys Ser Phe
560                 565                 570
Val Arg Thr His Leu Gln Val Ile Ile Ser Val Ser Gln Leu Ile
575                 580                 585
Ala Asp Val Val Gly Ile Gly Gly Thr Arg Phe Gln Gln Ser Leu
590                 595                 600
Ser Ile Ile Asn Asn Cys Ala Asn Ser Asp Arg Leu Ile Lys His
605                 610                 615
Thr Ser Phe Ser Ser Asp Val Lys Asp Leu Thr Lys Arg Ile Arg
620                 625                 630
Thr Val Leu Met Ala Thr Ala Gln Met Lys Glu His Glu Asn Asp
635                 640                 645
Pro Glu Met Leu Val Asp Leu Gln Tyr Ser Leu Ala Lys Ser Tyr
650                 655                 660
Ala Ser Thr Pro Glu Leu Arg Lys Thr Trp Leu Asp Ser Met Ala
665                 670                 675
Arg Ile His Val Lys Asn Gly Asp Leu Ser Glu Ala Ala Met Cys
680                 685                 690
Tyr Val His Val Thr Ala Leu Val Ala Glu Tyr Leu Thr Arg Lys
695                 700                 705
Gly Val Phe Arg Gln Gly Cys Thr Ala Phe Arg Val Ile Thr Pro
710                 715                 720
Asn Ile Asp Glu Glu Ala Ser Met Met Glu Asp Val Gly Met Gln
725                 730                 735
Asp Val His Phe Asn Glu Asp Val Leu Met Glu Leu Leu Glu Gln
740                 745                 750
Cys Ala Asp Gly Leu Trp Lys Ala Glu Arg Tyr Glu Leu Ile Ala
755                 760                 765
Asp Ile Tyr Lys Leu Ile Ile Pro Ile Tyr Glu Lys Arg Arg Asp
770                 775                 780
Phe Glu Arg Leu Ala His Leu Tyr Asp Thr Leu His Arg Ala Tyr
785                 790                 795
Ser Lys Val Thr Glu Val Met His Ser Gly Arg Ser Val Leu Gly
800                 805                 810
Thr Tyr Phe Arg Val Ala Phe Phe Gly Gln Gly Phe Phe Glu Asp
815                 820                 825
Glu Asp Gly Lys Glu Tyr Ile Tyr Lys Glu Pro Lys Leu Thr Pro
830                 835                 840
Leu Ser Glu Ile Ser Gln Arg Leu Leu Lys Leu Tyr Ser Asp Lys
845                 850                 855
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Phe Gly Ser Glu Asn Val Lys Met Ile Gln Asp Ser Gly Lys Val
860 865 870
Asn Pro Lys Asp Leu Asp Ser Lys Tyr Ala Tyr Ile Gln Val Thr
875 880 885
His Val Ile Pro Phe Phe Asp Glu Lys Glu Leu Gln Glu Arg Lys
890 895 900
Thr Glu Phe Glu Arg Ser His Asn Ile Arg Arg Phe Met Phe Glu
905 910 915
Met Pro Phe Thr Gln Thr Gly Lys Arg Gln Gly Gly Val Glu Glu
920 925 930
Gln Cys Lys Arg Arg Thr Ile Leu Thr Ala Ile His Cys Phe Pro
935 940 945
Tyr Val Lys Lys Arg Ile Pro Val Met Tyr Gln His His Thr Asp
950 955 960
Leu Asn Pro Ile Glu Val Ala Ile Asp Glu Met Ser Lys Lys Val
965 970 975
Ala Glu Leu Arg Gln Leu Cys Ser Ser Ala Glu Val Asp Met Ile
980 985 990
Lys Leu Gln Leu Lys Leu Gln Gly Ser Val Ser Val Gln Val Asn
995 1000 1005
Ala Gly Pro Leu Ala Tyr Ala Arg Ala Phe Leu Asp Asp Thr Asn
1010 1015 1020
Thr Lys Arg Tyr Pro Asp Asn Lys Val Lys Leu Leu Lys Glu Val
1025 1030 1035
Phe Arg Gln Phe Val Glu Ala Cys Gly Gln Ala Leu Ala Val Asn
1040 1045 1050
Glu Arg Leu Ile Lys Glu Asp Gln Leu Glu Tyr Gln Glu Glu Met
1055 1060 1065
Lys Ala Asn Tyr Arg Glu Met Ala Lys Glu Leu Ser Glu Ile Met
1070 1075 1080
His Glu Gln Ile Cys Pro Leu Glu Asp Glu Asp Glu Arg Leu Thr
1085 1090 1095
Glu Phe Pro Ser His Leu Gln Arg His Gln Trp Asp Ser Asn Lys
1100 1105 1110
His Asn Gly Ser Arg Asp Asp Gln Leu Val Phe Gly Arg Val Ile
1115 1120 1125
Thr Ser His Gly Pro Cys Val Gly Thr Cys Phe Val Ile Cys Lys
1130 1135 1140
Leu Arg Met Leu Ser Lys Ala Asn His Trp Gly Asp Arg Ala Gln
1145 1150 1155
Gly Gly Pro Arg Gly Arg Gly Glu Lys Gly Asn Lys Glu Gln Arg
1160 1165 1170
Tyr Phe Leu Thr Asp Phe Leu
1175

<210> 39
<211> 665
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1686305CD1

<400> 39
Met Thr Ser Ala Asn Lys Ala Ile Glu Leu Gln Leu Gln Val Lys
1 5 10 15
Gln Asn Ala Glu Glu Leu Gln Asp Phe Met Arg Asp Leu Glu Asn
20 25 30
Trp Glu Lys Asp Ile Lys Gln Lys Asp Met Glu Leu Arg Arg Gln
35 40 45
Asn Gly Val Pro Glu Glu Asn Leu Pro Pro Ile Arg Asn Gly Asn
50 55 60
Phe Arg Lys Lys Lys Lys Gly Lys Ala Lys Glu Ser Ser Lys Lys
65 70 75
Thr Arg Glu Glu Asn Thr Lys Asn Arg Ile Lys Ser Tyr Asp Tyr
80 85 90
Glu Ala Trp Ala Lys Leu Asp Val Asp Arg Ile Leu Asp Glu Leu

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                95                  100                 105
Asp Lys Asp Asp Ser Thr His Glu Ser Leu Ser Gln Glu Ser Glu
            110                 115                 120
Ser Glu Glu Asp Gly Ile His Val Asp Ser Gln Lys Ala Leu Val
        125                 130                 135
Leu Lys Glu Lys Gly Asn Lys Tyr Phe Lys Gln Gly Lys Tyr Asp
    140                 145                 150
Glu Ala Ile Asp Cys Tyr Thr Lys Gly Met Asp Ala Asp Pro Tyr
155                 160                 165
Asn Pro Val Leu Pro Thr Asn Arg Ala Ser Ala Tyr Phe Arg Leu
            170                 175                 180
Lys Lys Phe Ala Val Ala Glu Ser Asp Cys Asn Leu Ala Val Ala
        185                 190                 195
Leu Asn Arg Ser Tyr Thr Lys Ala Tyr Ser Arg Arg Gly Ala Ala
    200                 205                 210
Arg Phe Ala Leu Gln Lys Leu Glu Glu Ala Lys Lys Asp Tyr Glu
215                 220                 225
Arg Val Leu Glu Leu Glu Pro Asn Asn Phe Glu Ala Thr Asn Glu
            230                 235                 240
Leu Arg Lys Ile Ser Gln Ala Leu Ala Ser Lys Glu Asn Ser Tyr
        245                 250                 255
Pro Lys Glu Ala Asp Ile Val Ile Lys Ser Thr Glu Gly Glu Arg
    260                 265                 270
Lys Gln Ile Glu Ala Gln Gln Asn Lys Gln Gln Ala Ile Ser Glu
275                 280                 285
Lys Asp Arg Gly Asn Gly Phe Phe Lys Glu Gly Lys Tyr Glu Arg
            290                 295                 300
Ala Ile Glu Cys Tyr Thr Arg Gly Ile Ala Ala Asp Gly Ala Asn
305                 310                 315
Ala Leu Leu Pro Ala Asn Arg Ala Met Ala Tyr Leu Lys Ile Gln
            320                 325                 330
Lys Tyr Glu Glu Ala Glu Lys Asp Cys Thr Gln Ala Ile Leu Leu
        335                 340                 345
Asp Gly Ser Tyr Ser Lys Ala Phe Ala Arg Arg Gly Thr Ala Arg
    350                 355                 360
Thr Phe Leu Gly Lys Leu Asn Glu Ala Lys Gln Asp Phe Glu Thr
365                 370                 375
Val Leu Leu Leu Glu Pro Gly Asn Lys Gln Ala Val Thr Glu Leu
            380                 385                 390
Ser Lys Ile Lys Lys Glu Leu Ile Glu Lys Gly His Trp Asp Asp
        395                 400                 405
Val Phe Leu Asp Ser Thr Gln Arg Gln Asn Val Val Lys Pro Ile
    410                 415                 420
Asp Asn Pro Pro His Pro Gly Ser Thr Lys Pro Leu Lys Lys Val
425                 430                 435
Ile Ile Glu Glu Thr Gly Asn Leu Ile Gln Thr Ile Asp Val Pro
            440                 445                 450
Asp Ser Thr Thr Ala Ala Ala Pro Glu Asn Asn Pro Ile Asn Leu
        455                 460                 465
Ala Asn Val Ile Ala Ala Thr Gly Thr Thr Ser Lys Lys Asn Ser
    470                 475                 480
Ser Gln Asp Asp Leu Phe Pro Thr Ser Asp Thr Pro Arg Ala Lys
485                 490                 495
Val Leu Lys Ile Glu Glu Val Ser Asp Thr Ser Ser Leu Gln Pro
            500                 505                 510
Gln Ala Ser Leu Lys Gln Asp Val Cys Gln Ser Tyr Ser Glu Lys
        515                 520                 525
Met Pro Ile Glu Ile Glu Gln Lys Pro Ala Gln Phe Ala Thr Thr
    530                 535                 540
Val Leu Pro Pro Ile Pro Ala Asn Ser Phe Gln Leu Glu Ser Asp
545                 550                 555
Phe Arg Gln Leu Lys Ser Ser Pro Asp Met Leu Tyr Gln Tyr Leu
            560                 565                 570
Lys Gln Ile Glu Pro Ser Leu Tyr Pro Lys Leu Phe Gln Lys Asn
        575                 580                 585
Leu Asp Pro Asp Val Phe Asn Gln Ile Val Lys Ile Leu His Asp
    590                 595                 600
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Phe Tyr Ile Glu Lys Glu Lys Pro Leu Leu Ile Phe Glu Ile Leu
                605                 610                 615
Gln Arg Leu Ser Glu Leu Lys Arg Phe Asp Met Ala Val Met Phe
                620                 625                 630
Met Ser Glu Thr Glu Lys Lys Ile Ala Arg Ala Leu Phe Asn His
                635                 640                 645
Ile Asp Lys Ser Gly Leu Lys Asp Ser Ser Val Glu Glu Leu Lys
                650                 655                 660
Lys Arg Tyr Gly Gly
                665
<210> 40
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1688972CD1

<400> 40
Met Leu Asp Leu Gln Lys Gln Leu Gly Arg Phe Pro Gly Thr Phe
  1                 5                  10                  15
Val Gly Thr Thr Glu Pro Ala Ser Pro Pro Leu Ser Ser Thr Ser
                 20                  25                  30
Pro Thr Thr Ala Ala Ala Thr Met Pro Val Val Pro Ser Val Ala
                 35                  40                  45
Ser Leu Ala Pro Pro Gly Glu Ala Ser Leu Cys Leu Glu Glu Val
                 50                  55                  60
Ala Pro Pro Ala Ser Gly Thr Arg Lys Ala Arg Val Leu Tyr Asp
                 65                  70                  75
Tyr Glu Ala Ala Asp Ser Ser Glu Leu Ala Leu Leu Ala Asp Glu
                 80                  85                  90
Leu Ile Thr Val Tyr Ser Leu Pro Gly Met Asp Pro Asp Trp Leu
                 95                 100                 105
Ile Gly Glu Arg Gly Asn Lys Lys Gly Lys Val Pro Val Thr Tyr
                110                 115                 120
Leu Glu Leu Leu Ser
                125
<210> 41
<211> 366
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1812494CD1

<400> 41
Met Cys Tyr Phe Tyr Leu Gly Asp Lys Ile Lys Thr Ile Ser Phe
  1                 5                  10                  15
Gln Ala Phe Ile Leu Met His Leu Leu Leu Pro Ser Glu Tyr Ser
                 20                  25                  30
Leu Asp Gly Phe His Met Ser Gly Phe Ser Leu Gly Ser Gly Ser
                 35                  40                  45
Glu Gly Glu Asp Gly Phe Gln Val Glu Leu Glu Leu Val Glu Leu
                 50                  55                  60
Thr Val Gly Thr Leu Asp Leu Cys Glu Ser Glu Val Leu Pro Lys
                 65                  70                  75
Arg Arg Arg Arg Lys Arg Asn Lys Lys Glu Lys Ser Arg Asp Gln
                 80                  85                  90
Glu Ala Gly Ala His Arg Thr Leu Leu Gln Gln Thr Gln Glu Glu
                 95                 100                 105
Glu Pro Ser Thr Gln Ser Ser Gln Ala Val Ala Ala Pro Leu Gly
                110                 115                 120
Pro Leu Leu Asp Glu Ala Lys Ala Pro Gly Gln Pro Glu Leu Trp
                125                 130                 135
Asn Ala Leu Leu Ala Ala Cys Arg Ala Gly Asp Val Gly Val Leu
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                  140                 145                 150
Lys Leu Gln Leu Ala Pro Ser Pro Ala Asp Pro Arg Val Leu Ser
                  155                 160                 165
Leu Leu Ser Ala Pro Leu Gly Ser Gly Gly Phe Thr Leu Leu His
                  170                 175                 180
Ala Ala Ala Ala Ala Gly Arg Gly Ser Val Val Arg Leu Leu Leu
                  185                 190                 195
Glu Ala Gly Ala Asp Pro Thr Val Gln Asp Ser Arg Ala Arg Pro
                  200                 205                 210
Pro Tyr Thr Val Ala Ala Asp Lys Ser Thr Arg Asn Glu Phe Arg
                  215                 220                 225
Arg Phe Met Glu Lys Asn Pro Asp Ala Tyr Asp Tyr Asn Lys Ala
                  230                 235                 240
Gln Val Pro Gly Pro Leu Thr Pro Glu Met Glu Ala Arg Gln Ala
                  245                 250                 255
Thr Arg Lys Arg Glu Gln Lys Ala Ala Arg Arg Gln Arg Glu Glu
                  260                 265                 270
Gln Gln Gln Arg Gln Gln Glu Gln Glu Glu Arg Glu Arg Glu Glu
                  275                 280                 285
Gln Arg Arg Phe Ala Ala Leu Ser Asp Arg Glu Lys Arg Ala Leu
                  290                 295                 300
Ala Ala Glu Arg Arg Leu Ala Ala Gln Leu Gly Ala Pro Thr Ser
                  305                 310                 315
Pro Ile Pro Asp Ser Ala Ile Val Asn Thr Arg Arg Cys Trp Ser
                  320                 325                 330
Cys Gly Ala Ser Leu Gln Gly Leu Thr Pro Phe His Tyr Leu Asp
                  335                 340                 345
Phe Ser Phe Cys Ser Thr Arg Cys Leu Gln Asp His Arg Arg Gln
                  350                 355                 360
Ala Gly Arg Pro Ser Ser
                  365
<210> 42
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2013853CD1

<400> 42
Met Ser Thr Met Gly Asn Glu Ala Ser Tyr Pro Ala Glu Met Cys
  1                 5                  10                  15
Ser His Phe Asp Asn Asp Glu Ile Lys Arg Leu Gly Arg Arg Phe
                  20                  25                  30
Lys Lys Leu Asp Leu Asp Lys Ser Gly Ser Leu Ser Val Glu Glu
                  35                  40                  45
Phe Met Ser Leu Pro Glu Leu Arg His Asn Pro Leu Val Arg Arg
                  50                  55                  60
Val Ile Asp Val Phe Asp Thr Asp Gly Asp Gly Glu Val Asp Phe
                  65                  70                  75
Lys Glu Phe Ile Leu Gly Thr Ser Gln Phe Ser Val Lys Gly Asp
                  80                  85                  90
Glu Glu Gln Lys Leu Arg Phe Ala Phe Ser Ile Tyr Asp Met Asp
                  95                 100                 105
Lys Asp Gly Tyr Ile Ser Asn Gly Glu Leu Phe Gln Val Leu Lys
                 110                 115                 120
Met Met Val Gly Asn Asn Leu Thr Asp Trp Gln Leu Gln Gln Leu
                 125                 130                 135
Val Asp Lys Thr Ile Ile Ile Leu Asp Lys Asp Gly Asp Gly Lys
                 140                 145                 150
Ile Ser Phe Glu Glu Phe Ser Ala Val Val Arg Asp Leu Glu Ile
                 155                 160                 165
His Lys Lys Leu Val Leu Ile Val
                 170
<210> 43
<211> 761
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<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2284925CD1

<400> 43

Met	Arg	Leu	Thr	Gln	Asp	Pro	Ile	Gln	Val	Leu	Leu	Ile	Phe	Ala	
1				5					10						15
Lys	Glu	Asp	Ser	Gln	Ser	Asp	Gly	Phe	Trp	Trp	Ala	Cys	Asp	Arg	
				20					25						30
Ala	Gly	Tyr	Arg	Cys	Asn	Ile	Ala	Arg	Thr	Pro	Glu	Ser	Ala	Leu	
				35					40						45
Glu	Cys	Phe	Leu	Asp	Lys	His	His	Glu	Ile	Ile	Val	Ile	Asp	His	
				50					55						60
Arg	Gln	Thr	Gln	Asn	Phe	Asp	Ala	Glu	Ala	Val	Cys	Arg	Ser	Ile	
				65					70						75
Arg	Ala	Thr	Asn	Pro	Ser	Glu	His	Thr	Val	Ile	Leu	Ala	Val	Val	
				80					85						90
Ser	Arg	Val	Ser	Asp	Asp	His	Glu	Glu	Ala	Ser	Val	Leu	Pro	Leu	
				95					100						105
Leu	His	Ala	Gly	Phe	Asn	Arg	Arg	Phe	Met	Glu	Asn	Ser	Ser	Ile	
				110					115						120
Ile	Ala	Cys	Tyr	Asn	Glu	Leu	Ile	Gln	Ile	Glu	His	Gly	Glu	Val	
				125					130						135
Arg	Ser	Gln	Phe	Lys	Leu	Arg	Ala	Cys	Asn	Ser	Val	Phe	Thr	Ala	
				140					145						150
Leu	Asp	His	Cys	His	Glu	Ala	Ile	Glu	Ile	Thr	Ser	Asp	Asp	His	
				155					160						165
Val	Ile	Gln	Tyr	Val	Asn	Pro	Ala	Phe	Glu	Arg	Met	Met	Gly	Tyr	
				170					175						180
His	Lys	Gly	Glu	Leu	Leu	Gly	Lys	Glu	Leu	Ala	Asp	Leu	Pro	Lys	
				185					190						195
Ser	Asp	Lys	Asn	Arg	Ala	Asp	Leu	Leu	Asp	Thr	Ile	Asn	Thr	Cys	
				200					205						210
Ile	Lys	Lys	Gly	Lys	Glu	Trp	Gln	Gly	Val	Tyr	Tyr	Ala	Arg	Arg	
				215					220						225
Lys	Ser	Gly	Asp	Ser	Ile	Gln	Gln	His	Val	Lys	Ile	Thr	Pro	Val	
				230					235						240
Ile	Gly	Gln	Gly	Gly	Lys	Ile	Arg	His	Phe	Val	Ser	Leu	Lys	Lys	
				245					250						255
Leu	Cys	Cys	Thr	Thr	Asp	Asn	Asn	Lys	Gln	Ile	His	Lys	Ile	His	
				260					265						270
Arg	Asp	Ser	Gly	Asp	Asn	Ser	Gln	Thr	Glu	Pro	His	Ser	Phe	Arg	
				275					280						285
Tyr	Lys	Asn	Arg	Arg	Lys	Glu	Ser	Ile	Asp	Val	Lys	Ser	Ile	Ser	
				290					295						300
Ser	Arg	Gly	Ser	Asp	Ala	Pro	Ser	Leu	Gln	Asn	Arg	Arg	Tyr	Pro	
				305					310						315
Ser	Met	Ala	Arg	Ile	His	Ser	Met	Thr	Ile	Glu	Ala	Pro	Ile	Thr	
				320					325						330
Lys	Val	Ile	Asn	Ile	Ile	Asn	Ala	Ala	Gln	Glu	Asn	Ser	Pro	Val	
				335					340						345
Thr	Val	Ala	Glu	Ala	Leu	Asp	Arg	Val	Leu	Glu	Ile	Leu	Arg	Thr	
				350					355						360
Thr	Glu	Leu	Tyr	Ser	Pro	Gln	Leu	Gly	Thr	Lys	Asp	Glu	Asp	Pro	
				365					370						375
His	Thr	Ser	Asp	Leu	Val	Gly	Gly	Leu	Met	Thr	Asp	Gly	Leu	Arg	
				380					385						390
Arg	Leu	Ser	Gly	Asn	Glu	Tyr	Val	Phe	Thr	Lys	Asn	Val	His	Gln	
				395					400						405
Ser	His	Ser	His	Leu	Ala	Met	Pro	Ile	Thr	Ile	Asn	Asp	Val	Pro	
				410					415						420
Pro	Cys	Ile	Ser	Gln	Leu	Leu	Asp	Asn	Glu	Glu	Ser	Trp	Asp	Phe	
				425					430						435
Asn	Ile	Phe	Glu	Leu	Glu	Ala	Ile	Thr	His	Lys	Arg	Pro	Leu	Val	

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                440                 445                 450
Tyr Leu Gly Leu Lys Val Phe Ser Arg Phe Gly Val Cys Glu Phe
                455                 460                 465
Leu Asn Cys Ser Glu Thr Thr Leu Arg Ala Trp Phe Gln Val Ile
                470                 475                 480
Glu Ala Asn Tyr His Ser Ser Asn Ala Tyr His Asn Ser Thr His
                485                 490                 495
Ala Ala Asp Val Leu His Ala Thr Ala Phe Phe Leu Gly Lys Glu
                500                 505                 510
Arg Val Lys Gly Ser Leu Asp Gln Leu Asp Glu Val Ala Ala Leu
                515                 520                 525
Ile Ala Ala Thr Val His Asp Val Asp His Pro Gly Arg Thr Asn
                530                 535                 540
Ser Phe Leu Cys Asn Ala Gly Ser Glu Leu Ala Val Leu Tyr Asn
                545                 550                 555
Asp Thr Ala Val Leu Glu Ser His His Thr Ala Leu Ala Phe Gln
                560                 565                 570
Leu Thr Val Lys Asp Thr Lys Cys Asn Ile Phe Lys Asn Ile Asp
                575                 580                 585
Arg Asn His Tyr Arg Thr Leu Arg Gln Ala Ile Ile Asp Met Val
                590                 595                 600
Leu Ala Thr Glu Met Thr Lys His Phe Glu His Val Asn Lys Phe
                605                 610                 615
Val Asn Ser Ile Asn Lys Pro Met Ala Ala Glu Ile Glu Gly Ser
                620                 625                 630
Asp Cys Glu Cys Asn Pro Ala Gly Lys Asn Phe Pro Glu Asn Gln
                635                 640                 645
Ile Leu Ile Lys Arg Met Met Ile Lys Cys Ala Asp Val Ala Asn
                650                 655                 660
Pro Cys Arg Pro Leu Asp Leu Cys Ile Glu Trp Ala Gly Arg Ile
                665                 670                 675
Ser Glu Glu Tyr Phe Ala Gln Thr Asp Glu Glu Lys Arg Gln Gly
                680                 685                 690
Leu Pro Val Val Met Pro Val Phe Asp Arg Asn Thr Cys Ser Ile
                695                 700                 705
Pro Lys Ser Gln Ile Ser Phe Ile Asp Tyr Phe Ile Thr Asp Met
                710                 715                 720
Phe Asp Ala Trp Asp Ala Phe Ala His Leu Pro Ala Leu Met Gln
                725                 730                 735
His Leu Ala Asp Asn Tyr Lys His Trp Lys Thr Leu Asp Asp Leu
                740                 745                 750
Lys Cys Lys Ser Leu Arg Leu Pro Ser Asp Ser
                755                 760
<210> 44
<211> 249
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2376728CD1

<400> 44
Met Val Asp Arg Leu Ala Asn Ser Glu Ala Asn Thr Arg Arg Ile
  1               5                  10                  15
Ser Ile Val Glu Asn Cys Phe Gly Ala Ala Gly Gln Pro Leu Thr
                20                  25                  30
Ile Pro Gly Arg Val Leu Ile Gly Glu Gly Val Leu Thr Lys Leu
                35                  40                  45
Cys Arg Lys Lys Pro Lys Ala Arg Gln Phe Phe Leu Phe Asn Asp
                50                  55                  60
Ile Leu Val Tyr Gly Asn Ile Val Ile Gln Lys Lys Lys Tyr Asn
                65                  70                  75
Lys Gln His Ile Ile Pro Leu Glu Asn Val Thr Ile Asp Ser Ile
                80                  85                  90
Lys Asp Glu Gly Asp Leu Arg Asn Gly Trp Leu Ile Lys Thr Pro
                95                 100                 105
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Thr Lys Ser Phe Ala Val Tyr Ala Ala Thr Ala Thr Glu Lys Ser
110 115 120
Glu Trp Met Asn His Ile Asn Lys Cys Val Thr Asp Leu Leu Ser
125 130 135
Lys Ser Gly Lys Thr Pro Ser Asn Glu His Ala Ala Val Trp Val
140 145 150
Pro Asp Ser Glu Ala Thr Val Cys Met Arg Cys Gln Lys Ala Lys
155 160 165
Phe Thr Pro Val Asn Arg Arg His His Cys Arg Lys Cys Gly Phe
170 175 180
Val Val Cys Gly Pro Cys Ser Glu Lys Arg Phe Leu Leu Pro Ser
185 190 195
Gln Ser Ser Lys Pro Val Arg Ile Cys Asp Phe Cys Tyr Asp Leu
200 205 210
Leu Ser Ala Gly Asp Met Ala Thr Cys Gln Pro Ala Arg Ser Asp
215 220 225
Ser Tyr Ser Gln Ser Leu Lys Ser Pro Leu Asn Asp Met Ser Asp
230 235 240
Asp Asp Asp Asp Asp Asp Ser Ser Asp
245

<210> 45
<211> 247
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2790762CD1

<400> 45
Met Glu Thr Asp Glu Ser Pro Ser Pro Leu Pro Cys Gly Pro Ala
1 5 10 15
Gly Glu Ala Val Met Glu Ser Arg Ala Arg Pro Phe Gln Ala Leu
20 25 30
Pro Arg Glu Gln Ser Pro Pro Pro Pro Leu Gln Thr Ser Ser Gly
35 40 45
Ala Glu Val Met Asp Val Gly Ser Gly Gly Asp Gly Gln Ser Glu
50 55 60
Leu Pro Ala Glu Asp Pro Phe Asn Phe Tyr Gly Ala Ser Leu Leu
65 70 75
Ser Lys Gly Ser Phe Ser Lys Gly Arg Leu Leu Ile Asp Pro Asn
80 85 90
Cys Ser Gly His Ser Pro Arg Thr Ala Arg His Ala Pro Ala Val
95 100 105
Arg Lys Phe Ser Pro Asp Leu Lys Leu Leu Lys Asp Val Lys Ile
110 115 120
Ser Val Ser Phe Thr Glu Ser Cys Arg Ser Lys Asp Arg Lys Val
125 130 135
Leu Tyr Thr Gly Ala Glu Arg Asp Val Arg Ala Glu Cys Gly Leu
140 145 150
Leu Leu Ser Pro Val Ser Gly Asp Val His Ala Cys Pro Phe Gly
155 160 165
Gly Ser Val Gly Asp Gly Val Gly Ile Gly Gly Glu Ser Ala Asp
170 175 180
Lys Lys Asp Glu Glu Asn Glu Leu Asp Gln Glu Lys Arg Val Glu
185 190 195
Tyr Ala Val Leu Asp Glu Leu Glu Asp Phe Thr Asp Asn Leu Glu
200 205 210
Leu Asp Glu Glu Gly Ala Gly Gly Phe Thr Ala Lys Ala Ile Val
215 220 225
Gln Arg Asp Arg Val Asp Glu Glu Ala Leu Asn Phe Pro Tyr Glu
230 235 240
Val Cys Trp Gln Pro Leu Leu
245

<210> 46
<211> 316
<212> PRT

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2869164CD1

<400> 46
Met Ala Glu Ala Ala Leu Glu Ala Val Arg Ser Glu Leu Arg Glu
1 5 10 15
Phe Pro Ala Ala Ala Arg Glu Leu Cys Val Pro Leu Ala Val Pro
20 25 30
Tyr Leu Asp Lys Pro Pro Thr Pro Leu His Phe Tyr Arg Asp Trp
35 40 45
Val Cys Pro Asn Arg Pro Cys Ile Ile Arg Asn Ala Leu Gln His
50 55 60
Trp Pro Ala Leu Gln Lys Trp Ser Leu Pro Tyr Phe Arg Ala Thr
65 70 75
Val Gly Ser Thr Glu Val Ser Val Ala Val Thr Pro Asp Gly Tyr
80 85 90
Ala Asp Ala Val Arg Gly Asp Arg Phe Met Met Pro Ala Glu Arg
95 100 105
Arg Leu Pro Leu Ser Phe Val Leu Asp Val Leu Glu Gly Arg Ala
110 115 120
Gln His Pro Gly Val Leu Tyr Val Gln Lys Gln Cys Ser Asn Leu
125 130 135
Pro Ser Glu Leu Pro Gln Leu Leu Pro Asp Leu Glu Ser His Val
140 145 150
Pro Trp Ala Ser Glu Ala Leu Gly Lys Met Pro Asp Ala Val Asn
155 160 165
Phe Trp Leu Gly Glu Ala Ala Ala Val Thr Ser Leu His Lys Asp
170 175 180
His Tyr Glu Asn Leu Tyr Cys Val Val Ser Gly Glu Lys His Phe
185 190 195
Leu Phe His Pro Pro Ser Asp Arg Pro Phe Ile Pro Tyr Glu Leu
200 205 210
Tyr Thr Pro Ala Thr Tyr Gln Leu Thr Glu Glu Gly Thr Phe Lys
215 220 225
Val Val Asp Glu Glu Ala Met Glu Lys Val Pro Trp Ile Pro Leu
230 235 240
Asp Pro Leu Ala Pro Asp Leu Ala Arg Tyr Pro Ser Tyr Ser Gln
245 250 255
Ala Gln Ala Leu Arg Cys Thr Val Arg Ala Gly Glu Met Leu Tyr
260 265 270
Leu Pro Ala Leu Trp Phe His His Val Gln Gln Ser Gln Gly Cys
275 280 285
Ile Ala Val Asn Phe Trp Tyr Asp Met Glu Tyr Asp Leu Lys Tyr
290 295 300
Ser Tyr Phe Gln Leu Leu Asp Ser Leu Thr Lys Ala Ser Gly Leu
305 310 315
Asp

<210> 47
<211> 334
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3317629CD1

<400> 47
Met Thr Arg Ser Leu Phe Lys Gly Asn Phe Trp Ser Ala Asp Ile
1 5 10 15
Leu Ser Thr Ile Gly Tyr Asp Asn Ile Ile Gln His Leu Asn Asn
20 25 30
Gly Arg Lys Asn Cys Lys Glu Phe Glu Asp Phe Leu Lys Glu Arg
35 40 45

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Ala Ala Ile Glu Glu Arg Tyr Gly Lys Asp Leu Leu Asn Leu Ser
                50                  55                  60
Arg Lys Lys Pro Cys Gly Gln Ser Glu Ile Asn Thr Leu Lys Arg
                65                  70                  75
Ala Leu Glu Val Phe Lys Gln Gln Val Asp Asn Val Ala Gln Cys
                80                  85                  90
His Ile Gln Leu Ala Gln Ser Leu Arg Glu Glu Ala Arg Lys Met
                95                 100                 105
Glu Glu Phe Arg Glu Lys Gln Lys Leu Gln Arg Lys Lys Thr Glu
               110                 115                 120
Leu Ile Met Asp Ala Ile His Lys Gln Lys Ser Leu Gln Phe Lys
               125                 130                 135
Lys Thr Met Asp Ala Lys Lys Asn Tyr Glu Gln Lys Cys Arg Asp
               140                 145                 150
Lys Asp Glu Ala Glu Gln Ala Val Ser Arg Ser Ala Asn Leu Val
               155                 160                 165
Asn Pro Lys Gln Gln Glu Lys Leu Phe Val Lys Leu Ala Thr Ser
               170                 175                 180
Lys Thr Ala Val Glu Asp Ser Asp Lys Ala Tyr Met Leu His Ile
               185                 190                 195
Gly Thr Leu Asp Lys Val Arg Glu Glu Trp Gln Ser Glu His Ile
               200                 205                 210
Lys Ala Cys Glu Ala Phe Glu Ala Gln Glu Cys Glu Arg Ile Asn
               215                 220                 225
Phe Phe Arg Asn Ala Leu Trp Leu His Val Asn Gln Leu Ser Gln
               230                 235                 240
Gln Cys Val Thr Ser Asp Glu Met Tyr Glu Gln Val Arg Lys Ser
               245                 250                 255
Leu Glu Met Cys Ser Ile Gln Arg Asp Ile Glu Tyr Phe Val Asn
               260                 265                 270
Gln Arg Lys Thr Gly Gln Ile Pro Pro Ala Pro Ile Met Tyr Glu
               275                 280                 285
Asn Phe Tyr Ser Ser Gln Lys Asn Ala Val Pro Ala Gly Lys Ala
               290                 295                 300
Thr Gly Pro Asn Leu Ala Arg Arg Gly Pro Leu Pro Ile Pro Lys
               305                 310                 315
Ser Ser Pro Asp Asp Pro Asn Tyr Ser Leu Val Asp Asp Tyr Ser
               320                 325                 330
Leu Leu Tyr Gln

<210> 48
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3870488CD1

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Glu Arg Glu Phe Arg Lys Lys Phe Lys Phe Glu Gly Glu Ile Val
                20                  25                  30
Val His Thr Lys Met Met Ile Asp Pro Asn Ala Lys Thr Arg Arg
                35                  40                  45
Gly Gly Gly Lys His Leu Gly Ile Arg Arg Gly Glu Ile Leu Glu
                50                  55                  60
Val Ile Glu Phe Thr Ser Asn Glu Glu Met Leu Cys Arg Asp Pro
                65                  70                  75
Lys Gly Lys Tyr Gly Tyr Val Pro Arg Thr Ala Leu Leu Pro Leu
                80                  85                  90
Glu Thr Glu Val Tyr Asp Asp Val Asp Phe Cys Asp Pro Leu Glu
                95                 100                 105
Asn Gln Pro Leu Pro Leu Gly Arg
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<210> 49
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<211> 264
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3886318CD1

<400> 49
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Ser Ile Ser Lys Arg Glu Gln Leu Glu Gln Gln Val Pro Glu Asn
20 25 30
Tyr Phe Tyr Val Pro Asp Leu Gly Gln Val Pro Glu Ile Asp Val
35 40 45
Pro Ser Tyr Leu Pro Asp Leu Pro Gly Ile Ala Asn Asp Leu Met
50 55 60
Tyr Ile Ala Asp Leu Gly Pro Gly Ile Ala Pro Ser Ala Pro Gly
65 70 75
Thr Ile Pro Glu Leu Pro Thr Phe His Thr Glu Val Ala Glu Pro
80 85 90
Leu Lys Ala Asp Leu Gln Asp Gly Val Leu Thr Pro Pro Pro Pro
95 100 105
Pro Pro Pro Pro Pro Pro Ala Pro Glu Val Leu Ala Ser Ala Pro
110 115 120
Pro Leu Pro Pro Ser Thr Ala Ala Pro Val Gly Gln Gly Ala Arg
125 130 135
Gln Asp Asp Ser Ser Ser Ser Ala Ser Pro Ser Val Gln Gly Ala
140 145 150
Pro Arg Glu Val Val Asp Pro Ser Gly Gly Arg Ala Thr Leu Leu
155 160 165
Glu Ser Ile Arg Gln Ala Gly Gly Ile Gly Lys Ala Lys Leu Arg
170 175 180
Ser Met Lys Glu Arg Lys Leu Glu Lys Lys Gln Gln Lys Glu Gln
185 190 195
Glu Gln Val Arg Ala Thr Ser Gln Gly Gly His Leu Met Ser Asp
200 205 210
Leu Phe Asn Lys Leu Val Met Arg Arg Lys Gly Ile Ser Gly Lys
215 220 225
Gly Pro Gly Ala Gly Glu Gly Pro Gly Gly Ala Phe Ala Arg Val
230 235 240
Ser Asp Ser Ile Pro Pro Leu Pro Pro Pro Gln Gln Pro Gln Ala
245 250 255
Glu Glu Asp Glu Asp Asp Trp Glu Ser
260

<210> 50
<211> 185
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
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Glu Tyr Gln Ala Leu Thr Phe Leu Thr Arg Asn Glu Ile Leu Cys
20 25 30
Ile His Asp Thr Phe Leu Lys Leu Cys Pro Pro Gly Lys Tyr Tyr
35 40 45
Lys Glu Ala Thr Leu Thr Met Asp Gln Val Ser Ser Leu Pro Ala
50 55 60
Leu Arg Val Asn Pro Phe Arg Asp Arg Ile Cys Arg Val Phe Ser
65 70 75
His Lys Gly Met Phe Ser Phe Glu Asp Val Leu Gly Met Ala Ser
80 85 90

Val Phe Ser Glu Gln Ala Cys Pro Ser Leu Lys Ile Glu Tyr Ala
95 100 105
Phe Arg Ile Tyr Asp Phe Asn Glu Asn Gly Phe Ile Asp Glu Glu
110 115 120
Asp Leu Gln Arg Ile Ile Leu Arg Leu Leu Asn Ser Asp Asp Met
125 130 135
Ser Glu Asp Leu Leu Met Asp Leu Thr Asn His Val Leu Ser Glu
140 145 150
Ser Asp Leu Asp Asn Asp Asn Met Leu Ser Phe Ser Glu Phe Glu
155 160 165
His Ala Met Ala Lys Ser Pro Asp Phe Met Tyr Ser Phe Arg Ile
170 175 180
Arg Phe Trp Gly Cys
185

<210> 51
<211> 72
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 4371445CD1

<400> 51
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Lys Lys Thr Asp Thr Asp Arg Ala Leu Ser Leu Leu Glu Glu Tyr
20 25 30
Cys Lys Lys Leu Arg Lys Pro Glu Glu Gln Leu Leu Lys Asn Ala
35 40 45
Val Lys Lys Val Met Gly Ile Phe Lys Ser Ser Leu Phe Gln Ala
50 55 60
Leu Leu Gly Met Tyr Tyr Glu Ser Tyr Ser Ser Phe
65 70

<210> 52
<211> 434
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5527925CD1

<400> 52
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Gly Lys Leu Arg Arg Gly Leu Ala Val Ser Arg Gln Ala Val Arg
20 25 30
Ser Pro Gly Pro Leu Ala Ala Ala Val Ala Gly Ala Ala Leu Ala
35 40 45
Gly Ala Gly Ala Ala Trp His His Ser Arg Val Ser Val Ala Ala
50 55 60
Arg Asp Gly Ser Phe Thr Val Ser Ala Gln Lys Asn Val Glu His
65 70 75
Gly Ile Ile Tyr Ile Gly Lys Pro Ser Leu Arg Lys Gln Arg Phe
80 85 90
Met Gln Phe Ser Ser Leu Glu His Glu Gly Glu Tyr Tyr Met Thr
95 100 105
Pro Arg Asp Phe Leu Phe Ser Val Met Phe Glu Gln Met Glu Arg
110 115 120
Lys Thr Ser Val Lys Lys Leu Thr Lys Lys Asp Ile Glu Asp Thr
125 130 135
Leu Ser Gly Ile Gln Thr Ala Gly Cys Gly Ser Thr Phe Phe Arg
140 145 150
Asp Leu Gly Asp Lys Gly Leu Ile Ser Tyr Thr Glu Tyr Leu Phe
155 160 165
Leu Leu Thr Ile Leu Thr Lys Pro His Ser Gly Phe His Val Ala

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                170                 175                 180
Phe Lys Met Leu Asp Thr Asp Gly Asn Glu Met Ile Glu Lys Arg
                185                 190                 195
Glu Phe Phe Lys Leu Gln Lys Ile Ile Ser Lys Gln Asp Asp Leu
                200                 205                 210
Met Thr Val Lys Thr Asn Glu Thr Gly Tyr Gln Glu Ala Ile Val
                215                 220                 225
Lys Glu Pro Glu Ile Asn Thr Thr Leu Gln Met Arg Phe Phe Gly
                230                 235                 240
Lys Arg Gly Gln Arg Lys Leu His Tyr Lys Glu Phe Arg Arg Phe
                245                 250                 255
Met Glu Asn Leu Gln Thr Glu Ile Gln Glu Met Glu Phe Leu Gln
                260                 265                 270
Phe Ser Lys Gly Leu Ser Phe Met Arg Lys Glu Asp Phe Ala Glu
                275                 280                 285
Trp Leu Leu Phe Phe Thr Asn Thr Glu Asn Lys Asp Ile Tyr Trp
                290                 295                 300
Lys Asn Val Arg Glu Lys Leu Ser Ala Gly Glu Ser Ile Ser Leu
                305                 310                 315
Asp Glu Phe Lys Ser Phe Cys His Phe Thr Thr His Leu Glu Asp
                320                 325                 330
Phe Ala Ile Ala Met Gln Met Phe Ser Leu Ala His Arg Pro Val
                335                 340                 345
Arg Leu Ala Glu Phe Lys Arg Ala Val Lys Val Ala Thr Gly Gln
                350                 355                 360
Glu Leu Ser Asn Asn Ile Leu Asp Thr Val Phe Lys Ile Phe Asp
                365                 370                 375
Leu Asp Gly Asp Glu Cys Leu Ser His Glu Glu Phe Leu Gly Val
                380                 385                 390
Leu Lys Asn Arg Met His Arg Gly Leu Trp Val Pro Gln His Gln
                395                 400                 405
Ser Ile Gln Glu Tyr Trp Lys Cys Val Lys Lys Glu Ser Ile Lys
                410                 415                 420
Gly Val Lys Glu Val Trp Lys Gln Ala Gly Lys Gly Leu Phe
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<210> 53
<211> 1629
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 129042CB1

<400> 53

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gggtggccga ttactgcgag aacaactaca tacagtcagc agataagcag agagccctag 180
aagaaaccaa agcctacacc acccaatcct tagcaagtgt tgcctatctg ataaacacct 240
tggccaacaa tgtcctgcag atgctggata tccaggcatc ccagctacga aggatggaat 300
cttcaatcaa tcatatttca caaacagttg atattcataa agagaaagtt gcaagaagag 360
aaattggtat tttgactacc aataaaaaca cttcaaggac acataagatt attgctccag 420
ccaaccttga acgaccagtt cgttatatta gaaaacctat tgactataca attctagatg 480
atattggaca tggagtaaag gtgagtaccc agaacatgaa gatgggtggg ctgccgcgta 540
caacacctcc aactcagaag ccccctagtc cccctatgtc agggaaaggg acacttgggc 600
ggcactcccc ctatcgcaca ctggagccag tgcgtcctcc agtggtacca aatgattacg 660
tacctagccc aacccgtaat atggctccct cgcagcagag ccctgtgagg acagcttctg 720
tgaatcaaag aaatcgaact tacagcagca gtgggagtag tggagggagc cacccaagta 780
gtcggagcag cagtcgagag aacagtggaa gtggtagtgt gggggttcct attgctgttc 840
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gagccattat ttatgtcatc aagaagaatg acgatggttg gtatgaggga gttatgaatg 1320
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ccctggggat tccactccag taaagtagaa tgaaggatac aaatgataaa aattacactt 1500
tttttttgg tttattcccc agtattaaaa acaaagcaag ctgagtctga acaaatggat 1560
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atgtatgtc 1629

<210> 54
<211> 1257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 778003CB1

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tgacaggcgc ccaaatggcc aagtggctac gggactacct gagctttggg ggtcggaggc 180
cccctccgca gccgcccacc ccggactaca ccgagagcga catcctgagg gcctaccgcg 240
cgcagaagaa cctggacttt gaggacccct atgaggacgc ggagagccgc ttggagccgg 300
accccgcggg ccctggggac tccaagaacc ccggagatgc caagtatggt tctcccaagc 360
accggctcat caaggtggag gctgcggata tggccagagc caaggccctt ctgggcggcc 420
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cagatggacc cccttctggg cagaagcctc ggcagagccg gatgccccag gaagatgaac 660
ggccagcaga tgagtatgat cagccctggg agtggaagaa agaccacatc tccagggcgt 720
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agaaacagcc gtggtttcat ggcccccctga acagggcgga tgcagagagc ctcctgtccc 900
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<210> 55
<211> 1527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1418671CB1

<400> 55
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gttcatcctt cggcagaaca cgctggtgta ctacaagctt gaggggggtc ggagagtgac 240
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agggcagccg gggaaggtcc agcagctgca cagcctgaga aactccttca agctgccccc 480
gcacatcagc ctgcatcgca ttgtggacaa gatgcacgat agcaacaccg gaatccgttc 540
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catgctcatg gaggagaact tcctcaggcc tgtgggtgtc cgaagcatgg gagccattcg 720
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<210> 56
<211> 2220
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1456841CB1

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ggcccagcag cagagccatt tacttgcacc ggaaggagta ctcccagaac ctcacctcag 180
agcccaccct cctgcagcac agggtggagc acttgatgac atgcaagcag gggagtcaga 240
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tgtggagcca agacttgatc ctgcaggtca gggacggctg gctgcagctg ctggacattg 360
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gcactagcac tctgctcttc cagtgccagg aagtgggggc agagcgactg aagaccagcc 540
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<210> 57
<211> 2895
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2020010CB1

<400> 57

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gcactgcaca gccaccagca cgacattgaa caggaggacc cccgcgggcg gaccccactg 180
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cacatgacct ggcagcgggg ccggaggagc ttcatcttca agggccagga ggcaggagcc 600
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<223> Incyte ID No: 2244706CB1

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<221> unsure
<222> 2060-2061
<223> a, t, c, g, or other

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<211> 2330
<212> DNA
<213> Homo sapiens

<220>
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<211> 2610
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<223> Incyte ID No: 2320010CB1

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<211> 1035
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2564901CB1

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<210> 64
<211> 1838
<212> DNA
<213> Homo sapiens

<220>
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<213> Homo sapiens

<220>
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<211> 1788
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
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<212> DNA
<213> Homo sapiens

<220>
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<211> 1156
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 4155412CB1

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<210> 69
<211> 1981
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 4831840CB1

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<211> 1832
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5676581CB1

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<210> 71

<211> 1772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 034159CB1

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<210> 72
<211> 1488
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 129023CB1

<400> 72
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gatttcggac cctttggggc tgaatgcgac cccactgccc caagactcaa gcttggtgga 600
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<210> 73
<211> 2430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1358940CB1

<400> 73
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gaagagaaaa agaagaaacg ttctggattc agagacagaa aagtgatgga atatgagaat 480
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gatggaaaga aaatttccca ggaacgagaa aaatttgctg atgaaggcag tatattttac 720
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<210> 74
<211> 1411
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 1682320CB1

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ttattttgct cccaacccca gagcttcact tgctccttca cttcccagtt ccgcaagaac 420
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<210> 75
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1728263CB1

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<210> 76
<211> 1448
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1867626CB1

<400> 76
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tggtatttac aagagagaaa tcatttttacc taagagaact aattgaattg gcagcatcct 180
tgaaatacct ccggacaagg atctgggggt gggggtggaa aagcaactgc gaaatagcag 240
acggagaaat tcctttggaa gttattccgt agcataagag ctgaaacttc agagcaagtt 300
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tgacccaaac acaaagaaga actgggtacc caccagcaag catgcagtta ctgtgtctta 420
tttctatgac agcacaagaa atgtgtatag gataatcagt ttagatggct caaaggcaat 480
aataaatagt accatcaccc caaacatgac atttactaaa acatctcaga ggtttggcca 540
gtgggctgat agccgggcaa acaccgttta tggattggga ttctcctctg agcatcatct 600
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tagctctg 1448

<210> 77
<211> 1538
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1990126CB1

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<210> 78
<211> 998
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2104180CB1

<400> 78

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<210> 79
<211> 1086
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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aaaaaa 1086

<210> 80
<211> 2323
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2580428CB1

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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 3397189CB1

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<211> 1606
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 4881249CB1

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<210> 83
<211> 1980
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 431871CB1

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<210> 84
<211> 1449
<212> DNA
<213> Homo sapiens

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<210> 85
<211> 1231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 676234CB1

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<210> 86
<211> 858
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 720145CB1

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<211> 1748
<212> DNA
<213> Homo sapiens

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<221> unsure
<222> 65
<223> a, t, c, g, or other

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<210> 88
<211> 4240
<212> DNA
<213> Homo sapiens

<220>
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<213> Homo sapiens

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<223> Incyte ID No: 2790762CB1

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<213> Homo sapiens

<220>
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